



Sustainability Report

2023-24

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Executive Summary

In the Academic year 2023-24, we proudly report a campus environment characterized by a remarkable dedication to sustainability and inclusivity. With over 95% open space, more than 36% forest coverage, and exceeding 45% planted vegetation, more than 35% of the total campus area for water absorption, our commitment to preserving natural landscapes is evident, also the ratio of total open space area to the campus population is greater than 120 m² per person. Financially, we allocate over 36% of our budget to sustainability initiatives. Operational excellence is exemplified through 100% commitment to building operation and maintenance. Our campus facilities prioritize inclusivity, with support for special needs and maternity care. Robust security infrastructure ensures a response time of less than 10 minutes, while comprehensive health facilities are accessible to all. We also embrace comprehensive conservation programs, spanning flora, fauna, and genetic resources.

Our dedication to energy efficiency is evident, with over 92% of our appliances now classified as energy efficient, and the successful implementation of smart building technology surpassing the 80% mark. Furthermore, we have made substantial investments in renewable energy sources, boasting four sources on campus. Our efficient energy management is exemplified by a low total electricity usage per capita, standing at less than 53 kWh/person, and our total energy production from renewable sources is 1,095,550 kWh in the year 2023-24. We've integrated sustainability into our construction and renovation policies with the above three elements of green building practices. In addition, our comprehensive greenhouse gas emission reduction program addresses all three scopes of emissions (Scope 1, 2, and 3). Remarkably, our carbon footprint per person remains under 0.050 metric tons, reflecting our dedication to carbon reduction. We are also proud to support innovation in energy and climate change with more than three innovative programs, and our impactful university programs extend beyond our campus, providing training and educational materials at local, national, regional, and international levels. We have successfully implemented a robust 3R (Reduce, Reuse, Recycle) program for waste management, with over 100% compliance, effectively minimizing our ecological footprint. Furthermore, our dedication to reducing paper and plastic consumption is evident through the execution of more than three programs on campus. Over 90% of organic, inorganic, and toxic waste are treated responsibly, while toxic waste generation has been drastically reduced, affirming our conscientious waste management practices. Our sewage disposal undergoes tertiary treatment, ensuring its environmental compatibility. Additionally, we have made significant efforts in water conservation, over 60% of water conservation programs successfully implemented, our commitment extends to installing over 85% of water-efficient appliances campus-wide, Lastly, our comprehensive water pollution control policy and programs are not only fully implemented but are also subject to regular monitoring, exemplifying our unwavering dedication to safeguarding the environment within our campus and beyond.

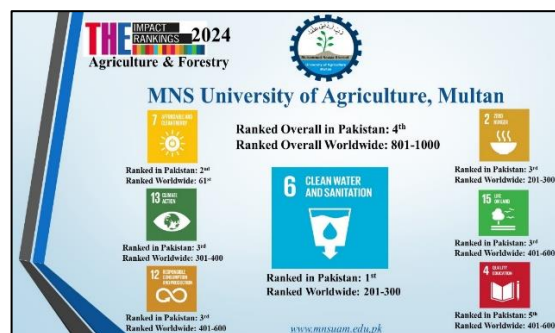
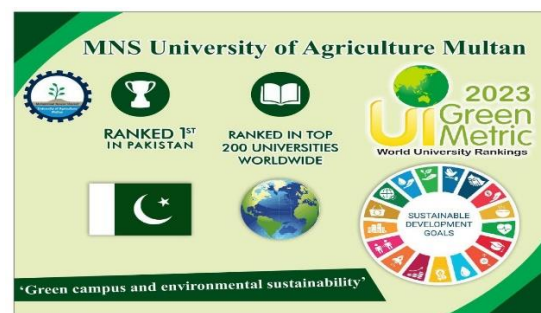
MNS-University of Agriculture, Multan having the advantage of public transportation readily accessible right at its entrance gate. Our dedication extends to providing a sustainable

transportation solution through a shuttle service that utilizes regular and zero-emission vehicles, prioritizing both convenience and environmental responsibility. Notably, our campus proudly offers Zero Emission Vehicles (ZEVs) for free, reflecting our significant investment in eco-conscious transportation options. Additionally, we have efficiently allocated our campus space, with parking areas accounting for less than 1% of the total campus area, showing our commitment to green spaces. MNSUAM promotes the usage of zero-emission vehicles, such as bicycles, as a preferred mode of transportation. Additionally, our faculty members also encourage to use bicycles as a eco-friendly means of commuting, we do not charge any parking fees for zero emission vehicles, but parking fees are imposed on private vehicles. Furthermore, our campus pedestrian paths, designed with safety and convenience and disabled-friendly features creating a sustainable and accessible campus for all. We are pleased to present the remarkable strides our university has made in advancing sustainability across its academic, research, and extracurricular endeavors. With a robust ratio of sustainability courses to total subjects surpassing 88%, we are deeply committed to integrating sustainability into our curriculum. Furthermore, our dedication to pioneering sustainability research is exemplified by a funding ratio exceeding 50% and a substantial 353 scholarly publications (Average Per annum) on sustainability. Our vibrant campus culture actively fosters sustainability through over 70 sustainability-related events and more than 40 student-led sustainability activities each year. We uphold our commitment to transparency and accessibility with an up-to-date sustainability website, ensuring easy access to information. Our campus comes alive with an array of cultural activities, and we organize more than ten cultural events in the academic year 2023-24. With more than ten international collaborations in our sustainability programs and we proudly engage on a global scale. Additionally, we have done more than 12 community service projects and incubate more than 20 sustainability-related startups in this academic year. These achievements underscore our unwavering commitment to sustainability, firmly establishing our university as a leader in sustainable education and innovation. Alhamdulillah...!!!

Introduction

Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) is an HEC recognized university of Pakistan chartered in 2013. The vision of the university is to become a world class university in agriculture and allied sciences by providing effective systems and leadership for professional learning, research, entrepreneurship, and community service. The university follows the core values of diversity, integration, engagement, resourcing, due diligence, transparency, and impact assessment. Since 2016, MNSUAM has been rapidly advancing and has quickly gained a reputation as one of the fastest-growing academic institutions in the country. The university's advancement has been verified by the reports and evaluations from HEC, Accreditation Council, the Agriculture Department, the government representatives, and local and foreign experts. The university has also emerged in international rankings, including Time Higher Education Rankings, WURI (World Universities with Real Impact), and UI GreenMetric Ranking, as an environmentally sustainable university.

The MNSUAM main campus is located at Old Shujabad Road in Multan. The campus includes undergraduate academic block, graduate research block, central lab system, research farm, administration block, student hostels, library, central mosque, and employees housing facility. The campus expansion work has started building National Centre for Genomics and Speed Breeding, another Academic Block, a Girl's Hostel, and a Sports Complex. Moreover, a solar energy plant has been installed for energy conservation and sustainable eco-friendly environment at the campus. The main campus has a geographical advantage of lying in the center of different wings of Punjab Agriculture Department including Central Cotton Research Institute, Cotton Research Station, Agricultural Mechanization Research Institute, Soil and Water Testing Laboratory, Directorate of Water Management, Agricultural Extension Wing, Pest Warning and Quality Control of Pesticides, Fisheries Department, Federal Seed Certification and Registration Department. All these research and extension offices along with the University's main campus are known as Agriculture Complex, aiming to facilitate the farming community of the region. The University also has a research and outreach station spanning 500 acres at Jalalpur Pirwala.



The university offers 60 undergraduate and postgraduate programs, and the current enrollment is about 7000. The university has 150 faculty members, most of them are PhD from various technologically advanced countries. The University thrives in quality teaching, learning, and research on campus. It has established a center of Genomics and Speed Breeding, Center for Agricultural Sustainability in South Punjab, Fruit and Tree Breeding Centre and the Department of Outreach and Continuing Education to strengthen its research and outreach initiatives. The Office of Research, Innovation, and Commercialization has been recognized by HEC Pakistan and is working to improve the research capabilities of faculty. The Quality Enhancement Cell ensures high-quality education through careful assessments and real-time evaluations. The Directorate of Student Affairs supports students with admission, course selection, registration, financial assistance, and the Career Development Center helps students find employment after graduation. About 70% of undergraduate students are engaged by the industry and progressive farmers on paid internships in their final semester. The Career Development Centre frequently organizes Job Fairs where university graduates are hired by the private and public sector organizations. Also, a fair number of university graduates has initiated their own entrepreneurial startups. The Business Incubation Center encourages organizes business plan competitions incubates with the help of HEC and local industry. The BIC has incubated more than 15 promising starts ups for their further development into the accelerating companies.

Research and outreach activities include research projects, publications, workshops, seminars, and conferences. Faculty members are doing basic and applied research projects funded by national and international funding bodies including HEC, PARB, PSF, SUPARCO, Pak-Italy, PHEC, ICIMOD, FAO, ACIAR, DIFID, DAAD. The faculty and postgraduate students are engaged with the industry for applied research. The annual impact factor research publications exceed 300, on an average three publications per faculty member per year and 10 patents have been filed for registratsion to date.



The University frequently organizes national and international conferences, ideas and business plan competitions and national and international webinars. Moreover, capacity building and mentoring activities for faculty members, training sessions for students/researchers under the Central Lab System, and outreach and recreational activities are organized at regular intervals. The outreach activities include Mango Festivals, DICE Business Plan Competition, farmers training on Ultra High-Density Planting and honey beekeeping, farmer advisory, industry consultancy, and working with communities through social action plans on various socio-economic opportunities.

MNSUAM rigorously engages with and serves the community. The University strongly commits to public service and regularly involves the community in its academic and non-academic activities. The community initiatives of kitchen gardening, organic vegetables through hydroponic and on-farm production, and urban forestry have been among the top projects.

The students and faculty members went beyond the hill torrent areas to conduct flood relief and rehabilitation activities, including ration drives, health and veterinary camps, and agricultural inputs for land. The Government of Pakistan acknowledged the community services, and one of the Rover Scouts of the University was awarded Prime Minister's Flood Relief Hero Award in 2022.

The university has strengthened its academic and research collaborations and signed MoCs/agreements with national and international organizations, including universities like University of California Davis, University of Georgia, University of Sydney, Charels Sturt University, Chinese Academy of Agricultural Sciences, Tang Chinese Education & Technology Ltd, FAO, Selcuk University, etc. Academia-Industry linkages are a major focus of the university. The major industry partners include Syngenta, Corteva, BASF, Engro, FFC, Fatima Fertilizers, Volka Foods, Mehmood Textile, Coloney Textile, Farm Dynamics etc. The university faculty is engaged with the farming community for productivity enhancement and value addition through cluster farming. Along with local and global engagement, the MNSUAM aims to become a center of excellence in innovation and entrepreneurship, providing resources and support for startups and incubators to develop social enterprises. The train its graduates for better citizenry the university emphasizes on experiential learning, active citizenship education, and social and religious tolerance.



Vision:

To develop a world class university in agricultural and allied sciences by providing effective systems and leadership for professional learning, research, entrepreneurship and community service.

Mission:

To provide food security and build knowledge-based economy through intellectual and social transformation.

Concept of Sustainability

MNS University of Agriculture, Multan (MNSUAM) is dedicated to sustainability across various aspects of its operations and campus life. The university boasts a highly eco-friendly campus with over 97% open space and significant green coverage, contributing to a low carbon footprint. Its commitment to energy efficiency is evident through the use of renewable energy sources, such as a 500-kW solar system, which allows the university to generate more energy than it consumes. Water conservation efforts include rainwater harvesting and greywater recycling, ensuring responsible use of resources. MNSUAM also prioritizes waste management with a robust 3R (Reduce, Reuse, Recycle) program, drastically reducing waste production. Moreover, the university promotes sustainable transportation through the use of zero-emission vehicles, shuttle services, and bicycle tracks. By integrating sustainability into its curriculum and supporting innovative research and startups, MNSUAM is shaping a future of environmental stewardship and regional agricultural advancement.



ORIC Team		SDG Team	
			
Prof. Dr. Junaid Ali Khan (Director ORIC)	Prof. Dr. Nasir Nadeem (SDG-1: No Poverty)	Dr. M. Shahbaz (SDG-2: Zero Hunger)	Dr. M. Unsar Naeem Ullah (SDG-3: Good Health and Well Being)
			
Dr. Muqarrab Ali (Focal Person UI GreenMetric Rankings & SDG-15: Life on Land)	Dr. Mohsin Nawaz (SDG-6: Clean Water and Sanitation)	Dr. Shazia Hanif (SDG-7: Affordable and Clean Energy)	Dr. Umar Ijaz Ahmad (SDG-10: Reduced Inequalities)
			
Mr. Zeeshan (Research Officer Rankings)	Dr. M. Usman Jamshaid (SDG-11: Sustainable Cities and Communities)	Dr. Shakeel Ahmad (SDG 12: Responsible Consumption and Production)	Dr. Ahmad Mahmood (SDG-13: Climate Action)
			
Mr. Ahmad Hasham (Focal Person Sustainability Website)	Dr. Abid Hussain (SDG-9: Industry Innovation and Infrastructure & SDG-17: Partnership to Achieve the Goals)	Dr. Wazir Ahmad (Sustainable Transportation & Estate Management)	Dr. Mohsin Khan (Sustainable Campus Infrastructure)





Sustainable Campus Infrastructure



Strengthening of Physical Infrastructure:

Physical infrastructure plays a vital role to develop any educational institution of the world. There are many factors which affect quality of education and research, but a conducive environment is the most important factor for consideration. A lot of efforts have been made to develop the infrastructure in a way to achieve the objective for provision of congenial environment to the students, faculty and administration of this university.

Total Campus Building Area (meter²)

Building in Block A (Academic Block) Area 5017 m ²	Building in Block A (Girls Hostel) Area 5825 m ²
	
Building in Block A (Vice Chancellor Residence) Area 395 m ²	Building in Block A (Faculty Residence) Area 1928 m ²
	

Building in Block B (Academic Block)
Area 18335 m2



Building in Block B (Administration Block)
Area 3749 m2



Building in Block B (Boys Hostel)
Area 5825 m2



Building in Block B (Guest House)
Area 611 m2



Building in Block B Central Library
Area 970 m2



National crop genomics and Speed Breeding Centre



Area 6,196 m2

Fatima-Tu-Zahra Masjid

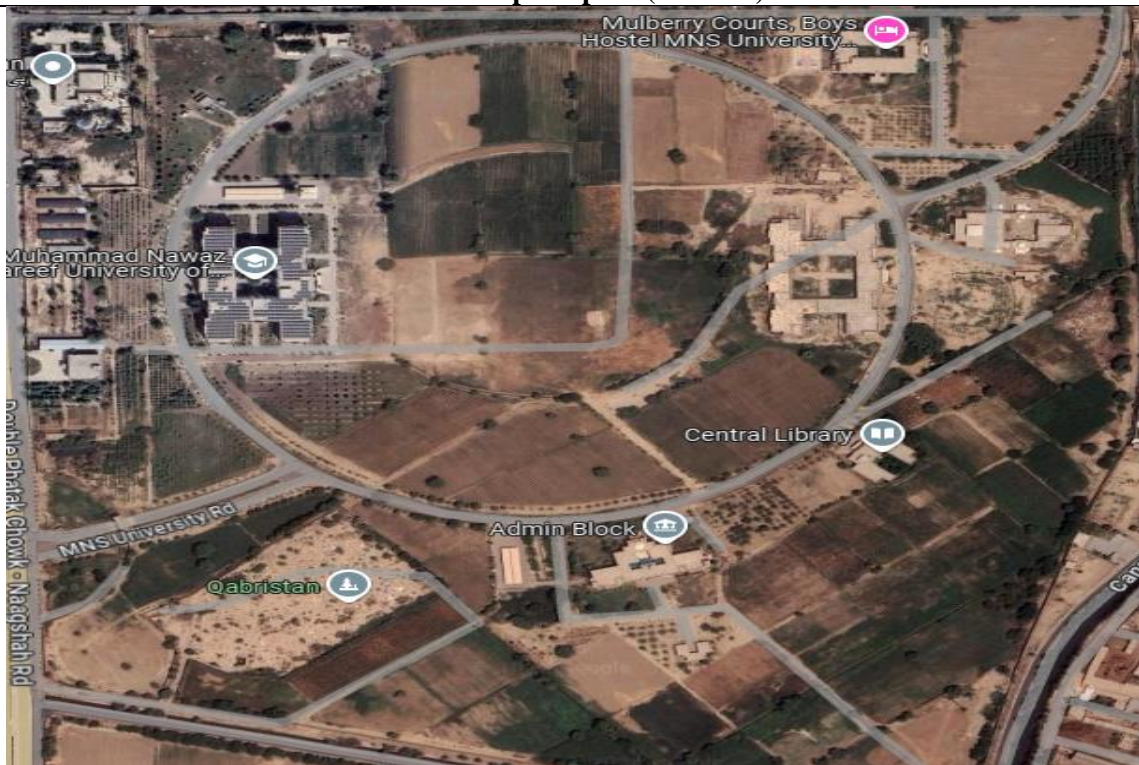


Area 3005 m2

The ratio of open space area to total area



Ratio of Open Space (Block A)



Ratio of Open Space (Block B)



Ratio of Open Space (Block C)

Open Space area:

Total Campus area – Total campus ground floor area of Building / Total Campus area x 100

$728,434 \text{ m}^2 - 29,944 \text{ m}^2 / 728,434 \text{ m}^2 \times 100$

$699,685 / 728,434 \times 100 = \underline{\underline{95.88\%}}$

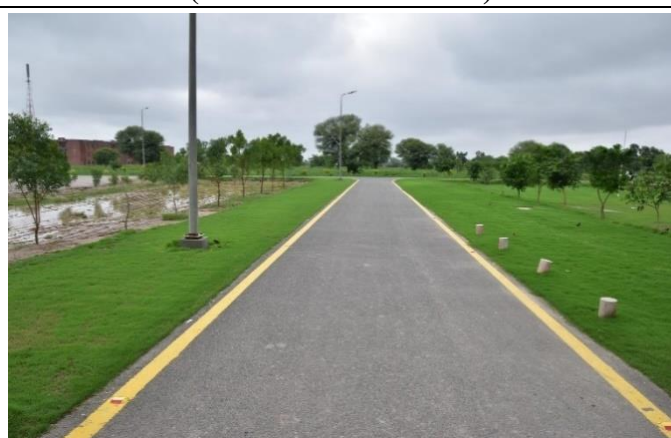
Water absorption besides forest & Planted Vegetation (meter²)



**Concrete blocks and Lawns
(Post Graduate Block)**



**Lawns inside the Building
(Post Graduate Block)**



Green Belts (Covered Road Sides)



Lawns (Academic Block)



Lawns (Admin Block)



Green Belts (Admin Block)

Description:

Total water absorption area = **255,807 m²**

Total area: 728,434m²

Total water absorption area in Percent: **35%**

Operation and maintenance activities



Lawn Maintenance (Admin Block)



Concrete Blocks paved at Postgraduate Block (Before and After)



Repainting of Parking Signs



Door Maintenance

Campus facilities for disable, special needs and or maternity care



1-Wheelchair ramps



2- Accessible toilet



3-Elevator installed



4-Electric Wheelchair distribution



5-Special Parking for disables

Security and safety facilities



Security Staff



CCTV Camera's



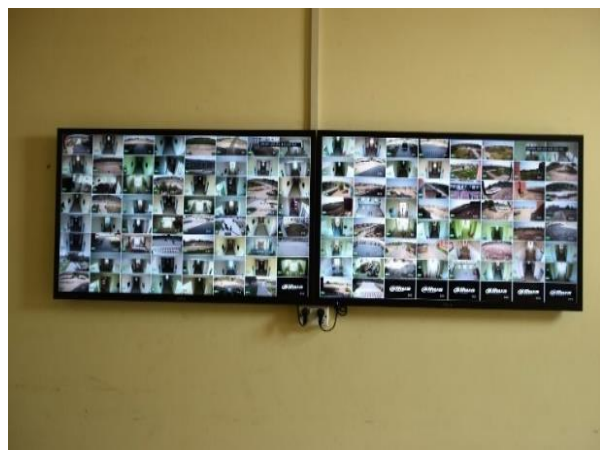
Fire Hind rant



Walk through Security gates



Heightened security check posts



Video Surveillance Room



Installed: Fire Extinguishers and Fire Buckets



Water Boozers:



Emergency Contact Information:



**Road Safety Seminar Organized in
Collaboration with Highway and Motorways
Police**



**Training on: How to respond in
emergency situations**

Health infrastructure facilities for students, academics and administrative staffs' wellbeing



University Wellness Centre



University Gym

Conservation Facilities



Fishpond Aqua-Culture



Miyawaki Urban Forest



Animal Shed



Hydroponics Unit

ICT Facilities



Conference rooms

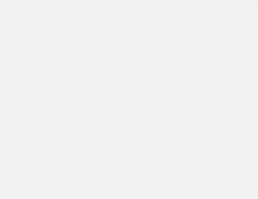
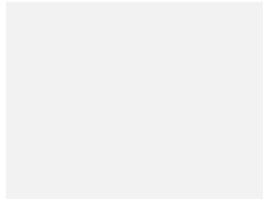
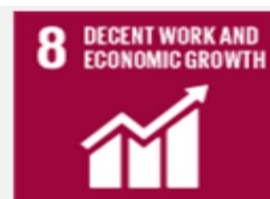


Smart Class rooms



ICT Infrastructure

Energy and Climate Change



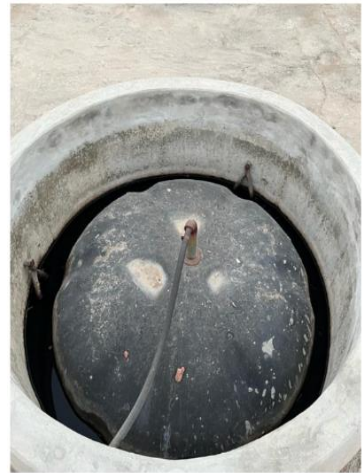
Energy Efficient Appliances Usage

MNS University of Agriculture Multan, as an institution dedicated to fostering green energy technology, knowledge, innovation, and progress. We have implemented energy-efficient lighting, fans, and air conditioning systems across our campus. By adopting these technologies, we not only reduce energy consumption but also showcase our commitment to creating a sustainable environment for our students, faculty, and staff. For lighting 12 watts led bulbs are being used, for air conditioning most of the appliances are DC Inverter and all the ceiling fans are 100 watts. The campus roads, corridors and lawns are illuminated with LED lights.



Renewable Energy Sources in Campus

MNSUAM commitment is exemplified by impressive 500 kW solar system, Solar operated gadgets, Irrigation system, wind power and Hydro power, biogas as farm and university energy source.



Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies

All the newly constructed buildings in MNS University of Agriculture, Multan have proper vents and green building implementation elements. All the smart buildings have approved structures from Multan Development Authority. Around all the smart buildings, green lawn and green belts have been established while approved plantation particularly of shady trees have been ensured around all the smart building and even along the boundary wall to address climate change. Our expanded blocks are under constructed & certified by PEC Green Buildings. The university has introduced the concept of Smart buildings equipped with efficient ventilation systems and surrounded by green belts and plantation for healthy environment around the buildings. All the corridors are properly ventilated and roof tops have vents for maximum utilization of daylight.



Greenhouse Gas Emission Reduction Program



MNS RIDE
Bus Tracking App

Login

Transitmate: Real-Time Tracking App
For MNSUAM Buses

Email

Password

Login

Don't have an account? [SignUp?](#)

MNS RIDE
Transitmate: Real-time Tracking App For
MNSUAM Buses

Muhammad Nawaz
Sharif University of...

FABSET MNSUAM
Department Of
Plant Pathology



MUHAMMAD NAWAZ
SHAREEF UNIVERSITY OF
AGRICULTURE, MULTAN



Veh No: _____

Date: _____

Parking Fee Rs 100/-

INSTRUCTIONS:

- 1-Use of a helmet is necessary.
- 2- Parking in disabled parking spots is strictly forbidden
- 3- The timing for parking vehicles is from 8:00 AM to 8:00 PM.

Install Eddy Flux Tower in Collaboration with FAO



Muhammad Nawaz Shareef (MNS) University of Agriculture, Multan, has recently installed an Eddy Co-variance (EC) flux tower on its campus with support of Food and Agriculture Organization FAO UN under the GCF project" Transforming the Indus Basin with Climate Resilient Agriculture and Water Management . This advanced equipment measures exchanges of gases, energy, and heat between the earth's surface and the atmosphere, providing critical data on carbon dioxide, water vapor, and energy fluxes. The eddy flux tower continuously monitors environmental variables, helping researchers better understand local climate dynamics, carbon cycling, water accounting and the impact of agricultural practices for better water management. This installation supports MNSUAM's commitment to climate research and sustainable agriculture, allowing for more data-driven approaches to environmental management, water accounting and sustainability efforts on campus and beyond.

Impactful University Programs and actions on Climate Change

Muhammad Nawaz Shareef
University of Agriculture, Multan





**ADMISSIONS
OPEN
2024**

**BSc(Hons)
Agriculture
(Soil Science)**

BS Environmental Sciences

MSc Climate Change

MSc Soil Science

PhD Soil Science

Career Opportunities

- ★ Ministry of Climate Change
- ★ Higher Education Department
- ★ Environmental Protection Agency
- ★ Banking Sector Environmental Health
- ★ Tourism Department GIS & RS Specialists
- ★ Pesticide Companies
- ★ OHS Officers WWF/NGO's/PPSC
- ★ Pesticides and Fertilizers Lab Chemists
- ★ Waste Management Company Managers
- ★ Environment Consultant
- ★ Climate Officers
- ★ Farm Managers



**DEPARTMENT OF SOIL
AND ENVIRONMENTAL SCIENCES**

www.mnsuam.edu.pk 0333-6940829



**A webinar on
Management Interventions for Cotton Crop under Prevailing
Monsoon-2023**

July 25, 2023

Time: 11:00 AM

**Department of Agronomy, MNS-University of Agriculture, Multan-Pakistan
Pakistan Meteorological Department Islamabad
Program**

Time	Activity
11:00 am – 11:10 am	Arrival of Guest and Recitation of Holy Quran
11:10 am – 11:25 am	“Overview of the webinar and role of MNS-UAM in Cotton Campaign 2023” by Prof. Dr. Shafqat Saeed, Dean Faculty of A&ES, MNS-University of Agriculture, Multan-Pakistan
11:25 am – 11:45 am	“Overview of National Weather Forecasting and Monsoon 2023 in South Punjab” by Dr. Shahzada Adnan, Deputy Director, National Drought Monitoring Centre, Pakistan Meteorological Department-Islamabad, Pakistan
11:45 am – 12:00 pm	“Impact Based Forecasting in Pakistan” by Dildar Hussain Kazmi, National Agromet Centre, Pakistan Meteorological Department-Islamabad, Pakistan
12:00 pm – 12:15 pm	“Performance of cotton varieties during current growing season of 2023” by Prof. Dr. Muhammad Iqbal, The Islamia University of Bahawalpur, Pakistan
12:15 pm – 12:30 pm	“Precise Cotton Management under Prevailing Weather Conditions” by Prof. Dr. Abdul Ghaffar, Department of Agronomy, MNS-University of Agriculture, Multan-Pakistan
12:30 pm – 12:45 pm	“Integrated Pest Management of Cotton Crop” by Dr. Muhammad Ishtiaq, Institute of Plant Protection, MNS-University of Agriculture, Multan-Pakistan
12:45 pm – 1:00 pm	“Prediction modeling for whitefly and pink bollworm” by Dr. Muhammad Habib ur Rahman, MNS-University of Agriculture, Multan-Pakistan
1:00 pm – 1:15 pm	Concluding Remarks by Prof. Dr. Asif Ali (T.D), Vice Chancellor, MNS-University of Agriculture, Multan-Pakistan

Please click the link below or scan the code to join the webinar:

<https://us06web.zoom.us/j/87991036480?pwd=WU1KeGVlWTFkZS9LZnhIRkewOWV2Zz09>

Passcode: 808717



National Webinar on Soil Pollution and Sustainable Development Goals



The poster for the National Webinar on Soil Pollution & SDGs features a green background with white and yellow text. At the top left, it includes the Food and Agriculture Organization of the United Nations logo and the Sustainable Development Goals logo. The title "NATIONAL WEBINAR on SOIL POLLUTION & SDGs" is prominently displayed in white. Below the title, the date and time "September 19, 2023-2:30 PM" are listed in a yellow box. The guest speaker information, including Prof. Dr. Azeem Khalid (PMAAUR) and Prof. Dr. Muhammad Shahid (Comsat University Islamabad, Vehari Campus), is provided in white text. The organizing department, "Department of Soil and Environmental Sciences," is listed in a yellow box. A note at the bottom states, "E-certificate will be provided to registered participants." On the right side of the poster, there is a photograph of a large, red, multi-story building, likely the University of Agriculture, Multan, and a small circular logo with a tree and the text "University of Agriculture, Multan".

NATIONAL WEBINAR
on
SOIL POLLUTION & SDGs
September 19, 2023-2:30 PM
GUEST SPEAKER
Prof. Dr. Azeem Khalid (PMAAUR)
Prof. Dr. Muhammad Shahid
(Comsat University Islamabad, Vehari Campus)
ORGANIZED BY
Department of Soil and Environmental Sciences
E-certificate will be provided to registered participants

Muhammad Nawaz Shareef
University of Agriculture, Multan

Seminar on Parthenium A highly invasive and poisonous weed threatening agriculture and environment



NOVEMBER 2023

ORIC NEWSLETTER



Smog Awareness Seminar

MNS University of Agriculture, Multan, in collaboration with FC College Lahore University, the National Disaster Management Authority successfully organized a comprehensive smog awareness seminar on November 16th, 2023. Dr. Derk Bakker, Associate Professor, Department of Environmental Sciences, FC College University, Lahore, and Ms. Saleha Ali from the National Disaster Management Authority, addressed the critical issue of combating smog.

The program commenced with the recitation of verses from the Holy Quran, followed by a brief address on smog by Dr. Ahmad Mahmood, Assistant Professor, Department of Soil and Environmental Science. He highlighted the severe impact of smog on the air quality of almost all major industrial cities in Pakistan, attributing it to the absence of urban plantation, especially in Multan, leading to a significant decline in air quality and a rise in various diseases.

Prof. Dr. Tanveer ul Haq, Chairman, Department of Soil and Environmental Sciences, emphasized university's ongoing commitment to addressing environmental and agricultural challenges. He expressed gratitude to Dr. Derk Bakker, Dr. Shazia Akhtar, Deputy Manager, National Disaster Management Authority, Nasir Chughtai, National Disaster Management Authority, Ms. Saleha Ali, and Sana Afan for their valuable contributions to the seminar.

Dr. Derk Bakker delivered the talk on smog in Punjab, its causes and effects.

Following Dr. Baker's presentation, Mr. Nasir Chughtai initiated a discussion on disaster management processes. He then invited Ms. Saleha Ali, to discuss various government projects and methods to reduce smog, particularly applauding the efforts of universities and research institutes. A significant number of representatives from student societies, government institutions, and faculty members from various disciplines attended the seminar.

The seminar concluded with the concluding remarks of Dr. Ahmad Mahmood. He extended gratitude to the guests and attendees, acknowledging the vision of Vice Chancellor MNS of Agriculture, Multan, Prof. Dr. Asif Ali (T.I). The university's commitment to collaborative efforts with stakeholders for sustainable solutions to environmental and agricultural challenges was emphasized during the event.



MNS-University of Agriculture Multan

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<https://mnsuam.edu.pk/images/extra/ORICNewsletter-November01.pdf>

NOVEMBER 2023

ORIC NEWSLETTER



Training Session on: **"Safe Use of Chemicals & Pesticides"**

MNS University of Agriculture, Multan, organized a training session on safe use of chemicals and pesticides on November 16th, 2023. Training session was attended by representatives from academia, industry and students. The session featured informative talks by industry experts.

Mr. Faheem from Field Solution and Mr. Asim of Bayer Crop Sciences discussed the safe application of chemicals and pesticides in agricultural fields. Moreover, a practical hands-on training session was conducted by Mr. Mubeen Iqbal from Bayer Crop Sciences, focusing on proper pesticide application techniques.

About 150 students participated in this training session and they were provided with safety kits.

The event concluded with a lively Q&A session and concluding remarks by Prof. Dr. Asif Ali (T.I), Vice-Chancellor, MNS University of Agriculture, Multan.



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<https://mnsuam.edu.pk/images/extra/ORICNewsletter-November01.pdf>

NOVEMBER 2023

ORIC NEWSLETTER



Seminar on:

Getting Ready for Global Leadership Role in Climate Change

Department of Soil and Environmental Sciences, MNS-University of Agriculture, Multan organized a seminar on "Getting ready for Global Leadership Role in Climate Change" on November 22, 2023. The Vice Chancellor Prof. Dr. Asif Ali (T.I) was the chief guest of the event. Vice Chancellor in his address said that Pakistan is fifth in the list of countries most affected by climate change. He expressed his concerns regarding worsening situation of smog in this month, which has made living in big cities miserable. The keynote speaker of the seminar was Mr. Usman Haider, Political Affairs Officer, United Nations (Kenya, Nairobi). He briefly served in Pakistan Army until 2006 until he joined United Nations and has been with several of its missions ever since. He acquainted the students to the actions taken by the United Nations to combat climate change and emphasized on raising awareness at the level of the society as well as participating in an effective and practical manner. Encouraging the students, he said that by being associated with an international organization like the United Nations, the youth can not only serve the country in a better way, but can also make the best decisions for the country's interests and can also change the opinion of the world in a positive way. He also said that being the students of an agricultural institution, they can become part of the coalition of environmental activities in the United Nations subsidiary bodies to reduce the emission of greenhouse gases worldwide, increase inclusivity, find nature-based solutions and sustainable energy. He added that it is important for all of us to recognize the enormity of the challenges we face, acknowledge them and show perseverance and determination to overcome them. He recommended students to start by improving their communication skills and exploring key strengths, qualities and areas of improvement. He further added that identifying your core values and strengths and their application to an allocated task can bring you success and satisfaction. Prof. Dr. Tanveer ul Haq, Chairman, Department of Soil and Environmental Sciences said that such programs are welcome and such programs should be continued in the future so that the students of the university can get the best employment opportunities. The seminar was concluded with the concluding remarks of Dr. Muqarrab Ali.



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<https://mnsuam.edu.pk/images/extra/ORICNewsletter-November01.pdf>

NOVEMBER 2023

ORIC NEWSLETTER



International Conference on: **“Fodder Production in Climate Shift Paradigm:** **Better Nutrition for Better Dairy Production”**

MNS University of Agriculture, Multan, organized an International Conference on 'Fodder Production in the Climate Shift Paradigm: Better Nutrition for Better Dairy Production' from 29th to 30th, November 2023. In this conference, scientists, researchers, and stakeholders from America, Argentina, Algeria, China, academia, pesticide and seed industries, FAO, and extension workers participated. The Vice-Chancellor, Prof. Dr. Asif Ali (T.I), welcomed all the participants and highlighted the importance of fodder and dairy. He emphasized mechanized production and storage of fodders to fulfill the needs of livestock and ensure quality dairy and meat production, especially in developing countries.

Daniel H. Putnam, from the University of California, Davis, USA, explained the need for cultivation and promotion of Alfalfa in Pakistan, emphasizing its yield potential and soil fertility benefits. Moreover, Dr. Daniel Basigalup from Argentina elaborated on alfalfa breeding trends in the near future. Mr. Timothy Blank, Director of Seed Certification, California Crop Improvement Association, explained certified seed production systems for forage crops. Prof. Dr. Tanveer Ahmad, Chairman, Department of Clinical Sciences, Bahauddin Zakariya University, Multan, elaborated on feeding or nutritional strategies for animals with health issues.



Mr. Ahsan M. Bajwa from Farm Dynamics explained mechanized farming for better fodder production and processing along with the concept of corporate farming. Vice-Chancellors from Cholistan University of Veterinary and Animal Sciences, Bahauddin Zakariya University Multan, and Women University Multan also attended the inaugural session of the conference and appreciated the efforts of MNS University of Agriculture for upscaling fodder production in the current scenarios of climate change and economic crises. A total of forty-six talks were presented in the conference, and speakers were from America, Argentina, Algeria, and China. At the end, souvenirs were distributed to invited speakers."

MNS-University of Agriculture Multan

12

<https://mnsuam.edu.pk/images/extra/ORICNewsletter-November01.pdf>



Celebration of World Soil Day



Webinar

Long-Term Weather Forecast and Management Interventions for Wheat Crop








January 04, 2024
10:00 AM
Zoom Passcode:300464



Scan To Save

Organized By: Department of Agronomy and Institute of Plant Breeding and Biotechnology, MNS-University of Agriculture, Multan.

Webinar on Long term weather forecast and management interventions for wheat crop

SDGs :

09: Industry, Innovation, and Infrastructure



13: Climate Action



17: Partnerships for the Goals



Highlights

- ▶ Recent advances in Geographical Information System (GIS) and Remote Sensing (RMS) Techniques and availability of satellite data have provided an opportunity to assist in coping with disaster management caused by climate change. For instance, map and monitor the glaciers and glaciers lakes.

Focus Area

- ▶ The seminar aimed at the dissemination of awareness about the impact of climate change on cryosphere and the brainstorming thoughts concluding from the project titled "Potential Risks of Glacier Lake Outburst Floods under Climate Change along China-Pakistan Economic Corridor (CPEC)" with PSF/CRP-CONSRM-488 funded by Pakistan Science Foundation.

Seminar on Risks of Glacier Lake Outburst Flood under Climate Change (Pst/CRP-Consrm -488)-MNSUAM

A seminar titled "Risks of Glacier Lake Outburst Flood under Climate Change" was organized by Department of Agricultural Engineering, MNSUAM on February 22, 2024. The seminar aimed at the dissemination of awareness about the impact of climate change on cryosphere and the brainstorming thoughts concluding from the project titled "Potential Risks of Glacier Lake Outburst Floods under Climate Change along China-Pakistan Economic Corridor (CPEC)" with PSF/CRP-CONSRM-488 funded by Pakistan Science Foundation. The seminar was graced by Dr. Alamgir A. Khan, Coordinator FABSET, Dr. Sarfraz Hashim head of department of Agricultural Engineering, MNSUAM and facilitated by Dr. Adnan Ahmad Tahir, Assistant Prof. Department of Environmental Sciences, COMSATS, Abbottabad.



In his opening remarks Dr. Sarfraz Hashim, enlightened the audience with the importance of glaciers lakes database under the influence of climate change. Proceeding on Dr. Adnan Ahmad Tahir, Assistant Prof. Department of Environmental Sciences, COMSATS, Abbottabad briefed about glaciers and lakes formation as well as their inventory funded by Pakistan Science foundation. He foregrounded that recent advances in Geographical Information System (GIS) and Remote Sensing (RMS) Techniques and availability of satellite data have provided an opportunity to assist in coping with disaster management due to climate change. He elaborated that Remote Sensing and GIS are a valuable tool to map and monitor the glaciers and glaciers lakes. He also discussed the types of glaciers present in Karakoram Region and explained that retreating of glaciers causes the lake formation.

AWARENESS SESSION ABOUT ELECTRIC VEHICLES

The Society of Engineers and Technologists (SET) and Green Youth Movement (GYM) club collaborated with the students of Lahore University of Management Sciences (LUMS) to host an awareness session on electric four-wheeler functions and sustainability on May 3, 2024, at MNS University of Agriculture, Multan. The session explored the functionalities and environmental advantages of recently developed electric four-wheelers by LUMS University. The session provided a clear understanding of electric vehicles (EVs) particularly the latest advancements in four-wheeler technology. Economic benefits were another important topic discussed during the session. Although the initial cost of electric four-wheelers may be higher than that of conventional vehicles, the long-term savings are significant.



The session encouraged active participation with students asking questions and sharing their thoughts. This exchange of ideas helped everyone gain a better understanding of the challenges and opportunities related to electric vehicles. Participants discussed obstacles to EV adoption in Pakistan such as the need for better charging infrastructure, public awareness, and supportive government policies. They also discussed the role of educational institutions in promoting sustainability and preparing future leaders to advocate for eco-friendly technologies. This educational session helped students understand the latest technology and its benefits for the environment. As the world seeks cleaner transportation options, learning about electric vehicles and what they can do becomes more and more important.

INTERNATIONAL DAY OF BIOLOGICAL DIVERSITY 2024

The Department of Outreach and Continuing Education in collaboration with UNESCO chair of low carbon and sustainable agriculture at Biosphere reserves celebrated the International Day of Biological Diversity through plantation drive, video and poster competitions on May 22, 2024. The day was celebrated with great enthusiasm and commitment, highlighting the importance of biodiversity in maintaining ecological balance and supporting sustainable development. The event featured a series of engaging activities designed to raise awareness and promote active participation in biodiversity conservation. The day started with Plantation Drive near Mulberry Courts (boys' hostel) at 9:00 am. This drive aimed to encourage participants to plant trees, creating a sense of responsibility towards the environment.



The initiative highlighted the critical role of urban forests in conserving and maintaining biodiversity, mitigating climate change, and supporting livelihoods in cities. Participants, including students, faculty members, and community leaders, enthusiastically planted various native tree species, reinforcing the importance of preserving green spaces for future generations. Following the plantation drive, the Inauguration Ceremony began at 10:00 am. The ceremony was graced by esteemed guests and speakers who emphasized the significance of biodiversity in sustaining life on Earth. Prof. Dr. Shafqat Saeed, Dean FAES inaugurated the ceremony and visited the posters and video stalls. During his conversation with the participants, he highlighted how biodiversity contributes to food security, health, clean water, and resilience to climate change.

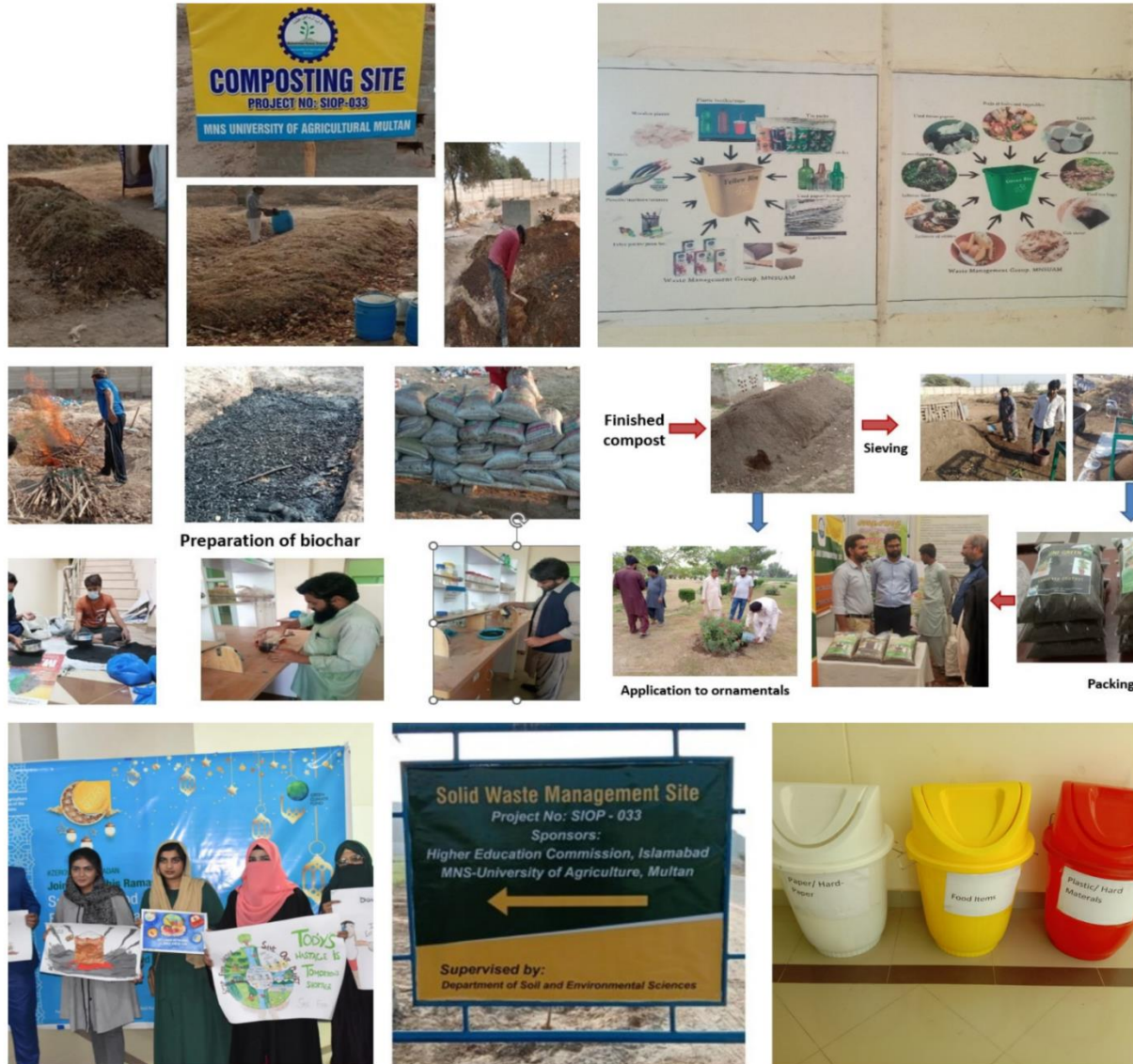
WORLD ENVIRONMENT DAY CELEBRATIONS

The Departments of Soil & Environmental Sciences and Climate Change at MNS-University of Agriculture, Multan, joined hands with Green Youth Movement (GYM), Plant for Life Society, and local collaborators to celebrate World Environment Day June 5, 2024. The event, titled "Celebrating World Environment Day: Land Restoration for a Sustainable Future," aimed to raise awareness about the critical role of healthy land in a sustainable future and inspire action towards its restoration. It aligned perfectly with this year's theme, "Our Land. Our Future. We are #GenerationRestoration," which emphasizes the importance of combating desertification and drought resilience. The event featured a keynote address by Ms. Rízwana Anjum, a representative from the Punjab Cities Program, who spoke on the crucial role of academia in driving environmental and climate change research.



Prof. Dr. Tanveer ul Haq, Chairperson of both the Soil & Environmental Sciences and Climate Change departments, applauded the collaborative effort and stressed the importance of student engagement in environmental initiatives. He remarked, "By nurturing a generation passionate about land restoration, we can ensure a healthier planet for all." The event welcomed participation from faculty, researchers, civil society organizations, and most importantly, students from across the university. A dedicated program included a poster and model competition centered around land restoration's role in combating desertification and drought. An evaluation committee judged entries based on pre-defined criteria, with prizes awarded to the winners. Adding further value to the day, the organizers distributed plant saplings to participants, encouraging them to take action for a greener future.

Waste Management



Strategies for sustainable waste management at MNS-UAM

This action plan is presented in response to decision made in the meeting of committee (constituted for Clean and Green Pakistan Campaign) regarding a letter from Punjab Higher Education Commission (PHEC) vide no. PHEC (HT&FD)/C&GP/18-1/2019, dated: July 9, 2019. The Students of Muhammad Nawaz Shareef University of Agriculture Multan recycle the tetra packs wastage and convert into tough tiles for constructing the trough paths. Additionally, this program allows all types recyclables (plastic, paper, glass, aluminum) to be placed in the separate containers, making it easier for the user.

Point to be address	Action Performed	Future plan	Targeted SDGs
University strategies for effective waste management and treatment.	<ol style="list-style-type: none"> 1. Different colored (red, blue and green) drums have been installed at cafeteria of MNSUAM for source segregation of organic and inorganic wastes and their efficient recycling. 2. Boards were displayed to convince the students and staff for putting the different types of wastes into their respective bins. 3. Seminars and lectures have been organized to create awareness about the need and benefits of waste recycling. 4. Students were engaged in activity based learning by their active participation in waste collection using different colored bags. 5. The administration notified that documents should be printed on both sides and only the necessary documents should be printed. 6. Different committees are working to keep the campus and society clean and green. 7. The student organization called the Clean Environment Volunteer Force is actively monitoring cleanliness on campus at all times. 8. The university has established a waste management site for recycling, which includes composting organic waste and recycling inorganic materials. 9. Sanitary workers of the university were trained for efficient waste collection and management. 10. The university signed a memorandum of understanding (MoU) with recycling companies to enhance waste management practices. 	<ul style="list-style-type: none"> ➤ More dedicated bins will be placed at various locations throughout the university for the source segregation of different types of waste. ➤ Teachers will motivate and educate students about cleanliness and its impact on both mental and physical health throughout their lives. 	3,8,12,14,15 & 17

3R (Reduce, Reuse and Recycle) Program for University Waste



MNS-UNIVERSITY OF AGRICULTURE, MULTAN
Old Shujabad Road, Multan

GENERAL SECTION: REGISTRAR OFFICE
Tel: 061-9201541, Email: zulfiqar.tabassum@mnsuam.edu.pk

No: MNS-UAM/RO-4-N/175

Date: 24.02.2021

Notification

The Vice Chancellor has been pleased to accord approval to constitute the following committees with immediate effect for the development of effective solid waste management system at the Campus of MNS-University of Agriculture,

a. Core Committee:

- | | |
|---|-----------|
| 1. Prof. Dr. Tanveer-ul-Haq
Chairman, Deptt. of S&ES | Convener |
| 2. Dr. Alamgir Akhtar Khan
Subject Expert | Member |
| 3. Dr. M. Asif Raza
Director Estate Management | Member |
| 4. Treasurer Nominee | Member |
| 5. Dr. Shakeel Ahmad
Assistant Professor | Secretary |

b. Sub Committees:

Details of the sub Committees are as follows:

Task	Committees	Responsibility
Solid waste collaboration delivery to waste management site	<ul style="list-style-type: none">Dr. M. Asif Raza ConvenerDr. Mudassar Ali MemberFarm Manager MemberDr. Wazir Ahmed Secretary	The collection and delivery of solid waste material from color coded bins (Green, Yellow and Red) from buildings and grass clipping and crop residues from farms/lawns on waste management site.
Waste Segregation at site	<ul style="list-style-type: none">Dr. Shakeel Ahmad ConvenerEstate Care Nominee MemberDr. M. Usman Jamshaid Secretary	<ul style="list-style-type: none">The solid waste will be segregated into organic waste, recyclable and non-recyclable waste according to provided SOP'sEstate Care will provide labor for the sorting of waste

01 of 02

Composting process of organic waste at site	<ul style="list-style-type: none"> • Prof. Dr. Tanveer-ul-Haq • Dr. Alamgir A. Khan • Dr. M. Usman Jamshaid • Dr. Mohsin Nawaz • Estate Care Nominee • Dr. Shakeel Ahmad 	Convener Member Member Member Member Secretary	<ul style="list-style-type: none"> • Team will be responsible for composting of organic waste at site. • Estate Care will provide labor needed for composting operations.
Auction of recyclable material	<ul style="list-style-type: none"> • Dr. Shakeel Ahmad • Dr. M. Usman Jamshaid • Treasurer Nominee • Dr. Wazir Ahmed 	Convener Member Member Secretary	<ul style="list-style-type: none"> • Arrangements for auction of recyclable material and making the system sustainable
Disposal of non-recyclable	<ul style="list-style-type: none"> • Estate Care Nominee 		<ul style="list-style-type: none"> • Safe disposal of non-recyclable material


Zulfiqar Ali Tabassum
 Deputy Registrar (G)
 For Registrar

CC:-

1. All Deans (Acting)/Directors/HOD's/Chairmen of the Teaching Departments/Institutes
2. Convener, Members and Secretaries of the committee
3. Treasurer
4. Secretary to the Vice Chancellor
5. Notification File

02 of 02

Team Notification for develop effective Waste Management system

Waste Collection System



Awareness Posters displays for the usage of Separate containers



Different colored bins for effective waste segregation

Waste Management System

- A site for sustainable management of University waste has been established in MNSUAM.
- Organic waste is converted into 2 products to improve soil health.
 1. Compost
 2. Biochar



Composting



Layering of organic wastes and turning during composting

Finished
compost



Sieving



Application to ornamentals



Packing

Biochar preparation



Preparation of biochar



Preparation of biochar-based slow-release P-fertilizer



FAO and MNSUAM Collaborate on Ramadan Food Waste Campaign



Poster making Competition to Promote Food Waste Reduction Campaign in Ramadan



WORLD ENVIRONMENT DAY CELEBRATIONS



Model Competition at World Environment Day 2023 to promote recycling



MNS UNIVERSITY OF AGRICULTURE, MULTAN
DIRECTORATE OF GRADUATE STUDIES

No. GS/ 2022/552
Dated: 07/09/2022

Notification

Subject: Printing and submission of final hard binding of thesis

The agenda regarding submission of number of copies of final hard binding of thesis and printing on single or double side of page was discussed in 16th meeting of BASR held on 13-06-2022. The BASR principally agreed but suggested that it should be discussed in Executive Committee for further deliberation and selecting the best method of thesis submission. Accordingly, it was discussed in 31st meeting of Executive Committee held on 01-08-2022 and after detailed deliberation, it was agreed that only three printed hard copies of thesis will be submitted by the student to the office of Controller Examinations. The Controller Examination will send one copy to main library and one copy to departmental library after necessary official scrutiny while the 3rd copy will be kept by the Controller Examination. Moreover, a soft copy of the thesis (both in word and pdf format) including scanned signed pages with number and date shall also be submitted to Controller of Examination. The Controller Office shall send one soft approved copy to each DGS, main library, departmental library, and concerned supervisor. The house further decided that thesis may be printed on both sides of the pages to reduce the use of papers. However, the house did not agree to reduce the minimum limit of 75 pages for thesis.

Director Graduate Studies

CC

- All Deans/Director
- All HoDs
- All Faculty
- Controller of the Examinations
- Notice Board

Printing and Submission of Reports and thesis using both side of the papers

Waste Management Policy



Dr. Shakeel Ahmad



MNS-University of Agriculture, Multan-Pakistan



NOTIFICATION

The Vice Chancellor has accorded administrative approval to celebrate “**World Environment Day-2024**” on 5th June, 2024 with theme “Our Land. Our Future. We are# Generation Restoration” being organized by the Department of Soil & Environmental Sciences, and Climate Change in collaboration with Green Youth Movement, Plant for Life Society and Local Stakeholders. An evaluation committee will judge the entries based on pre-defined criteria, with prizes awarded to the winners. The detail of the program is attached herewith.

The following committees will look after all necessary arrangements to organize the said activity.

Organizing Committee:

- | | |
|--|-----------|
| 1. Prof. Dr. Tanveer ul Haq
Chairman, Deptt. of S&ES | Convener |
| 2. Dr. Shakeel Ahmad
Assistant Professor, S&ES | Member |
| 3. Dr. Ahmad Mahmood
Assistant Professor, Climate Change | Secretary |

Invitation Committee:

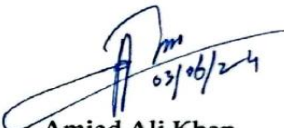
- | | |
|---|-----------|
| 1. Dr. Muhammad Baqir Hussain
Associate Professor, S&ES | Convener |
| 2. Dr. Wazir Ahmed
Associate Professor, S&ES | Member |
| 3. Dr. Muhammad Arif
Lecturer, S&ES | Member |
| 4. Dr. Muhammad Imran
Assistant Professor, S&ES | Secretary |

Report Writing Committee:

- | | |
|--|-----------|
| 1. Dr. Shakeel Ahmad
Assistant Professor, S&ES | Convener |
| 2. Dr. Wazir Ahmed
Associate Professor, S&ES | Member |
| 3. Dr. M. Usman Jamshaid
Lecturer/Senior Tutor | Member |
| 4. Dr. Waseem Hassan
Assistant Professor, S&ES | Secretary |

Poster/Model Committee:

- | | |
|--------------------------------------|-----------|
| 1. Dr. Muhammad Baqir Hussain | Convener |
| Associate Professor, S&ES | |
| 2. Dr. Amar Matloob | Member |
| Associate Professor, Climate Change | |
| 3. Dr. Muqarrab Ali | Member |
| Associate Professor, Climate Change | |
| 4. Dr. M. Usman Jamshaid | Member |
| Lecturer/Senior Tutor | |
| 5. Dr. Umair Riaz | Secretary |
| Assistant Professor, S&ES | |


Amjad Ali Khan
Assistant Registrar (G)

Copy to: -

1. Deans of the Faculties/Coordinator of the Faculty
2. Convener, Members and Secretary of the committees
3. Secretary to the Vice Chancellor
4. P.A to Registrar
5. Concerned File

Page: 02 of 02

 CamScanner

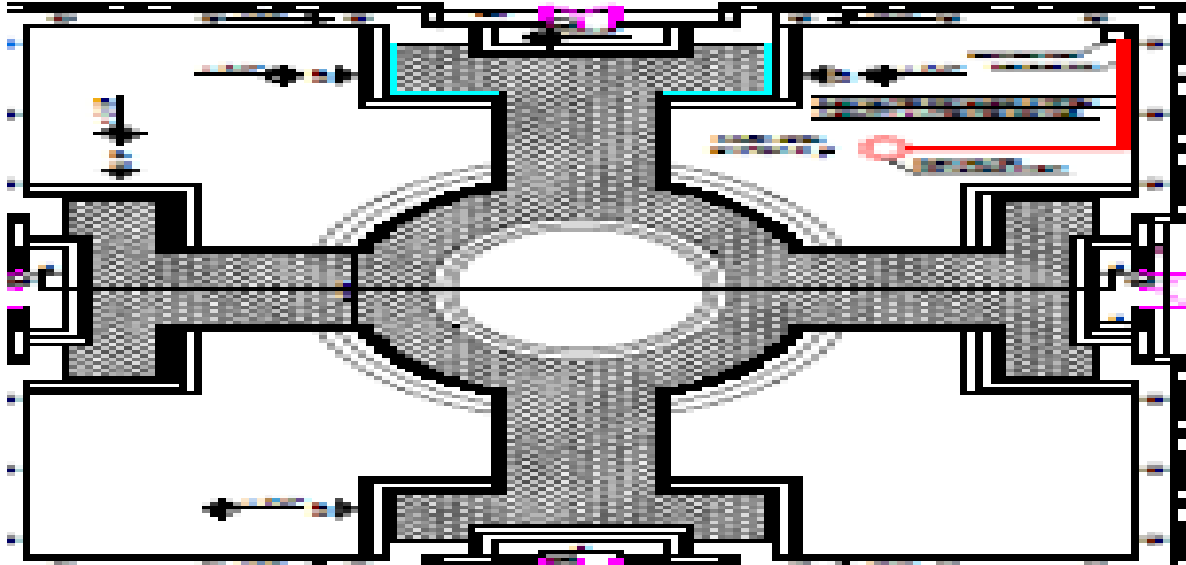
Event Notification: World Environment Day 2024

Water



Water Conservation Program Implementation

MNS University of Agriculture has demonstrated its commitment to sustainable water management by installing a rainwater recharge system in Academic Block B. This system is designed to capture rainwater from rooftops, driveways, and other surfaces, allowing it to infiltrate the ground and replenish the groundwater table. By reducing surface runoff and mitigating the risk of flooding, the system helps address water scarcity, making it a valuable asset for the university.



Rainwater Harvesting for Groundwater Recharge



Rain Water Collection – Storage Ponds

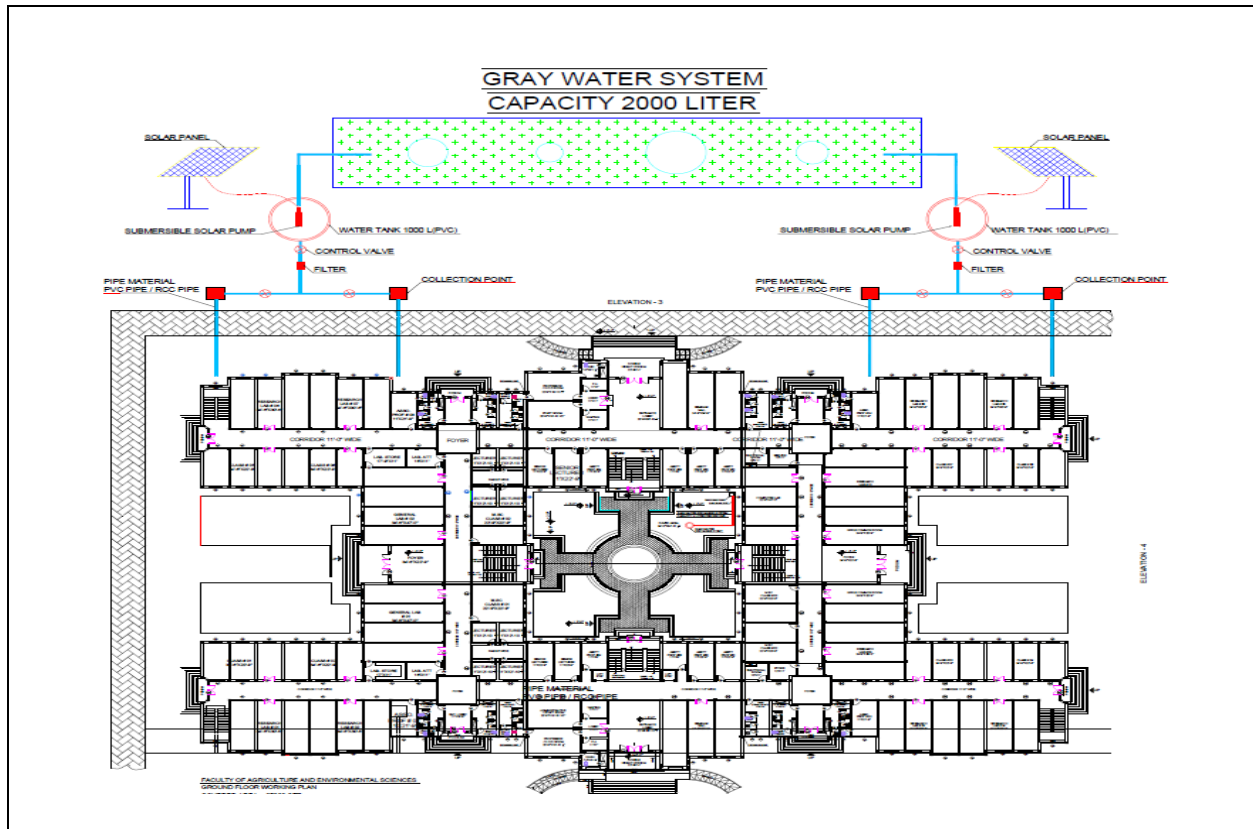


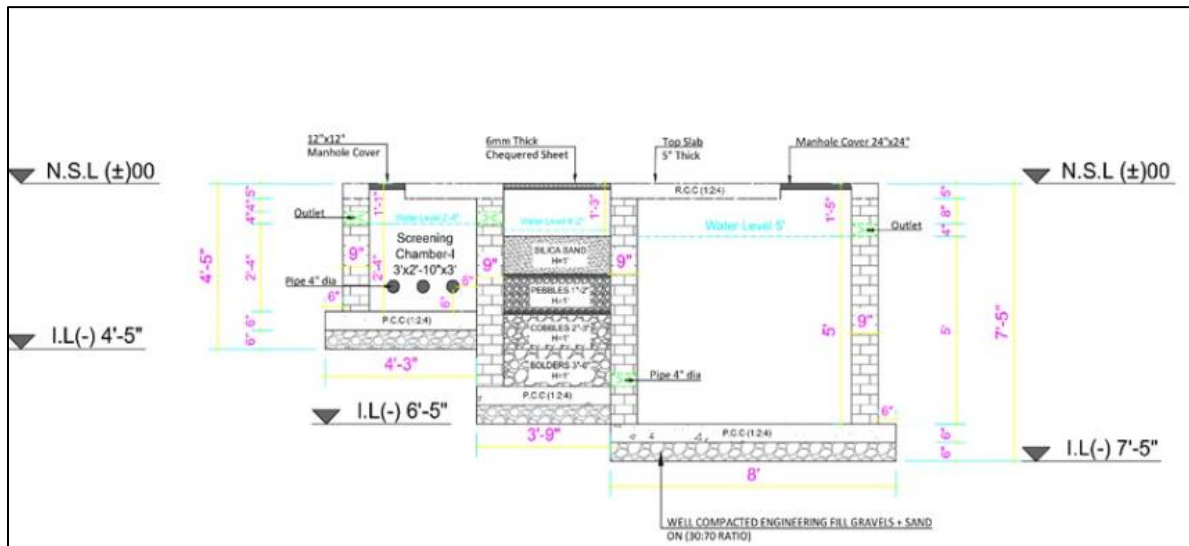
Fermenter Technology

<https://www.youtube.com/watch?v=54GLDbtaS8c>



Rain Harvesting System





Grey Water System

A greywater collection system is designed to reuse and recycle less contaminated wastewater generated from sources like sinks, showers, and laundry. The purpose is to reduce water wastage by treating and repurposing this relatively clean water for purposes such as irrigation, flushing toilets, or even in some cases, filtering for non-potable uses. This helps conserve freshwater resources and can contribute to more sustainable water management.

The management at MNS University of Agriculture is much concerned about the grey water collection and use of this water for plantation and agriculture purposes. Recently the management has installed a grey water system in the academic block for achieving the said goals of grey water system. During tertiary treatment of water, we used chlorine during chlorination process to disinfect bacteria and viruses, and eliminate parasites such as Giardia and Cryptosporidium, which caused very serious illnesses.

To remove the chlorine, a compound called sodium bisulfite is added to the water. Chlorine ions in the water react with this chemical and are removed. Once the chlorine concentration has been reduced to a safe level, the treated water is now considered clean enough to be safely released into the environment

Muhammad Nawaz Shareef University of Agriculture, Multan has installed ablution water recycling system with the aid of WWF. The Mosque is under construction and the system connected to the ablution facility. The water recycled for agricultural purposes.

Water Efficient Appliances

The Use of Water Efficient Appliances (Water tap, toilet flush, etc.) installed at Muhammad Nawaz Shareef University of Agriculture, Multan.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	90	78	86%
Wastafel	84	74	90%
		Average Percentage	88%



Water Efficient Appliances Usage

Consumption of Treated Water

In MNSUAM, we employ rainwater for washing purposes, such as car, bus cleaning and utilizing greywater for the irrigation of our agricultural fields and lawns. This innovative approach allows us to reduce our reliance on conventional water sources and harness the natural abundance of rainwater, promoting both environmental sustainability and cost efficiency in our operations.



Utilizing of Rain Water for Consumption

TREATED GREY WATER



Utilization of Treated Grey Water for Consumption

Life under water: SDG-14

On April 1, 2024, the Department of Zoology, Wildlife & Fisheries at the Faculty of Veterinary & Animal Sciences organized an SDG-14 awareness day. The event focused on water conservation and marine life protection. Notable guests included Dr. Asif Raza, Dr. Shafqat Saeed, Dr. Irfan Ahmad Baig, and Dr. Umar Farooq. The program began with a Quran recitation, followed by a seminar featuring Dr. Naheed Bano, who addressed water pollution and endangered species, and Dr. Aziz ul Rehman, who discussed waterborne diseases. Students presented fish-based dishes and models to promote seafood production. The event concluded with an awareness walk.



Two days Hands on Training of Groundwater Modelling and information product

The two-day training on groundwater hydrology and modeling provided a comprehensive blend of theoretical concepts and hands-on practice to address climate change impacts on agricultural water management. Day 1 focused on the fundamentals of groundwater hydrology and modeling techniques, including a detailed session on data requirements for constructing effective models. Key outputs, such as the Groundwater Modelling outcomes for the Khanewal area, were shared with stakeholders.

On Day 2, participants engaged in a practical session using Groundwater Vista software, where they developed a steady-state groundwater model. This included defining model boundaries, integrating a Digital Elevation Model (DEM) from USGS Earth Explorer, and analyzing bore log data to determine stratigraphy and hydraulic properties. The session covered inputting hydraulic data and boundary conditions, followed by the development and execution of individual models. The training effectively transitioned from theory to application, enhancing participants' proficiency in groundwater modeling.



On January 25, 2024, the Department of Agronomy at MNS University of Agriculture, Multan, organized an international seminar titled “Potential and Opportunities in Spate Irrigation.” The event brought together academics, researchers, farmers, and international experts to discuss advancements in spate irrigation. Dr. Khuram Mubeen highlighted research outcomes from spate-irrigated fields and emphasized the need for deep tillage to enhance water infiltration and reduce runoff, improving both crop productivity and groundwater levels. The introduction of spate irrigation into the university’s curriculum was also discussed.

Vice Chancellor Dr. Ishtiaq Ahmad Rajwana stressed the importance of prioritizing spate-irrigated areas in national development plans, particularly in the context of climate change, floods, and droughts. The event concluded with gratitude expressed to all participants.

Notification Seminar on Spate Irrigated Agriculture



MNS-UNIVERSITY OF AGRICULTURE, MULTAN
Old Shujabad Road, Multan

GENERAL SECTION: REGISTRAR OFFICE
Tel: 061-9201541, Email: arg@mnsuam.edu.pk

No: MNSUAM/RO-04/466

Date: 31-05-2024

NOTIFICATION

The Vice Chancellor has accorded administrative approval to organize a seminar on "Spate Irrigated Agriculture on May 31, 2024 being organized by the Department of Agronomy of Muhammad Nawaz Shareef University of Agriculture, Multan. Farmers from Spate Irrigated Areas of District Kachi, Tehsil Bhag, Baluchistan and Technical staff from Flood Based Livelihoods Network Pakistan will also be present in the workshop. The event will cover informative and presentation followed by interactive discussion, Q&A session on the proposed topic. The detail of the program is attached herewith.

The following committee will look after all necessary arrangements to organize the said activity.

Organizing Committee:

- | | |
|-------------------------------|-----------|
| 1. Prof. Dr. Abdul Ghaffar | Convener |
| Director University Farms | |
| 2. Dr. Rao M. Ikram | Member |
| Associate Professor, Agronomy | |
| 3. Dr. Abdul Razzaq | Member |
| Director IT | |
| 4. Dr. Mudassir Aziz | Member |
| Lecturer, Agronomy | |
| 5. Mr. Nabeel Ahmad Ikram | Member |
| Lecturer, Agronomy | |
| 6. Mr. Riaz Ahmad | Member |
| Deputy Registrar (PRP) | |
| 7. Dr. Khuram Mubeen | Secretary |
| Associate Professor, Agronomy | |

Report Writing Committee:

- | | |
|-------------------------------------|-----------|
| 1. Dr. Amar Matloob | Convener |
| Associate Professor, Climate Change | |
| 2. Dr. M. Asif Shehzad | Secretary |
| Assistant Professor, IPBB | |


Amjad Ali Khan
Assistant Registrar (G)

Copy to: -

1. Deans of the Faculties/Coordinator of the Faculty
2. Convener, Members and Secretary of the committee
3. Secretary to the Vice Chancellor
4. P.A to Registrar
5. Concerned File

Transportation



Convenience of Public Transport and Shuttle System

MNS-University of Agriculture, Multan offers the advantage of public transportation readily accessible right at its entrance gate. Additionally, we provide a sustainable shuttle service on a regular basis as an extra convenience for our students.



Multan Feeder Bus Service stop (Affordable Public Transport) is conveniently located right at the doorstep of MNSUAM.



University Shuttle Service

1st Shift	07:50 am	08:00 am	08:10 am	08:15 am	08:20 am	08:25 am	08:30 am	08:35 am	08:40 am	08:50 am
2nd Shift	10:50 am	11:00 am	11:10 am	11:15 am	11:20 am	11:25 am	11:30 am	11:35 am	11:40 am	11:50 am
Route 1	Golbag	Awan Chowk	Raza Abad	Airport Chowk	MDA Chowk	Nishter Chowk	High Court	Bumanji Chowk	Railway Station	University
Route2	-	BZU	Chungi no 6	Chungi no 7	Kalma Chowk	Dara Ada	Aziz Hotel	Bilal Chowk	University	-
Route3	-	Madni Chowk	Peoples Colony	BCG Chowk	Gala Mandi	Walayat Abad	Aziz Hotel	Farooq Pura	University	-
Route4	-	Raheem Chowk	Doulat Gate	Mumtaz Abad	Madina Town	Bahawalpur Bypass	Nag Shah	Kayan Pur	University	-
Route5	-	Muzaffar Abad	Nadir Abad	Tehsil Mor	Towna Street	Qasim Bela	Ghori Chowk	Grid Station	University	-
Route6	Piran Gaib	Qazafi Stadium	Bilal Motors	Kalma Chowk	Sp Chowk	Double Phatak	Chowngi no 21	University	-	-

Shuttle Service Routes details and timings

Zero Emission Vehicles (ZEV) Policy on Campus

The MNS University of Agriculture campus prioritizes the safety and convenience of cyclists and pedestrians. It features vehicle-free pathways, with a strict 30 km/h speed limit imposed on all internal roads and cycle paths. Additionally, every block provides free cycle parking facilities. The university actively promotes cycling and walking within the campus, regularly organizing cycle races and physical activities.





Zero Emission Vehicle Policy Implemented



The Society of Engineers and Technologists (SET) and Green Youth Movement (GYM) club collaborated with the students of Lahore University of Management Sciences (LUMS) to host an

awareness session on electric four wheeler functions and sustainability on May 3, 2024, at MNS University of Agriculture, Multan. The session explored the functionalities and environmental advantages of recently developed electric four wheelers by LUMS University. The session provided a clear understanding of electric vehicles (EVs) particularly the latest advancements in four-wheeler technology. Economic benefits were another important topic discussed during the session.

Ratio of Parking Area to Total Campus Area



Description:

Total main campus area: 728434 m²

Total parking area = 6187 m²

Ratio = $6187 / 728434 * 100 = 0.84$

Program to limit or decrease the parking area on campus for the last 3 years (from 2021 to 2023)

MNSUAM, being a young university with nearly a decade of age, having limited parking space. However, the university benefits from the advantage of readily accessible public transport at its entrance, helps reduce the need for expanded parking facilities. MNS University of Agriculture, Multan, has also launched initiatives to further minimize private vehicle usage, including restricted parking zones for students, free bicycles on campus, parking fees, and a shuttle tracking application. These measures not only promote sustainability but also reduce the demand for parking space, easing traffic congestion on campus.



Limiting parking zone (MNSUAM)



Free Bicycle (MNSUAM)



MUHAMMAD NAWAZ
SHAREEF UNIVERSITY OF
AGRICULTURE, MULTAN



Veh No: _____
Date: _____

Parking Fee Rs 100/-

INSTRUCTIONS:

- 1- Use of a helmet is necessary.
- 2- Separate Parking for disable persons.
- 3- Vehicles may be parked for a specified duration only.

Charge for Parking



Shuttle Tracking Application (MNSUAM)

Number of Transportation Initiatives to Decrease Private Vehicles on Campus

MNSUAM, being a young university with nearly a decade of age, having limited parking space. However, the university benefits from the advantage of readily accessible public transport at its entrance, helps reduce the need for expanded parking facilities. MNS University of Agriculture, Multan, has also launched initiatives to further minimize private vehicle usage, including restricted parking zones for students, free bicycles on campus, parking fees, and a shuttle tracking application. These measures not only promote sustainability but also reduce the demand for parking space, easing traffic congestion on campus.



Affordable Public Transport available at Door step of MNSUAM



Campus Shuttle Service



**MUHAMMAD NAWAZ
SHAREEF UNIVERSITY OF
AGRICULTURE, MULTAN**



Veh No: _____
Date: _____

Parking Fee Rs 100/-

INSTRUCTIONS:

- 1- Use of a helmet is necessary.
- 2- Separate Parking for disable persons.
- 3- Vehicles may be parked for a specified duration only.

Chargeable parking



Limited and Paid Parking Zone



Free Bicycle



Shuttle Tracking Application

Pedestrian Path Policy on Campus

- ✓ Separator between road for vehicle and pedestrian path.
- ✓ The facility of lift is also provided in admin and academic block to facilitate students particularly with special needs.
- ✓ Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
- ✓ Disable friendly ramps are constructed to facilitate disable persons.



Pedestrian path with Green Belt



Pedestrian path with concrete Blocks



Disable friendly Ramps (MNSUAM)

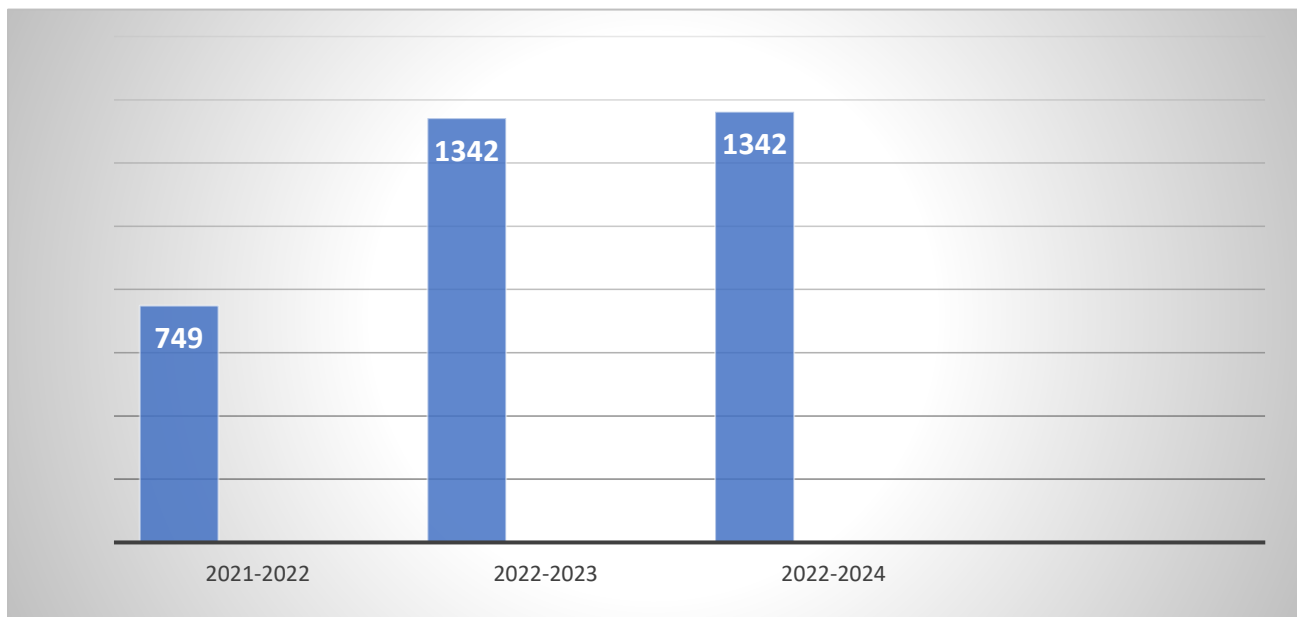
Education and Research



Total Number of Courses/Subjects Offered

Total number of courses offered = 1342 courses (not modules)

2021-2022	749
2022-2023	1342
2023-2024	1342



Total number of courses offered during 2021 to 2024

Total Research Funds Dedicated to Sustainability Research (in US Dollars)

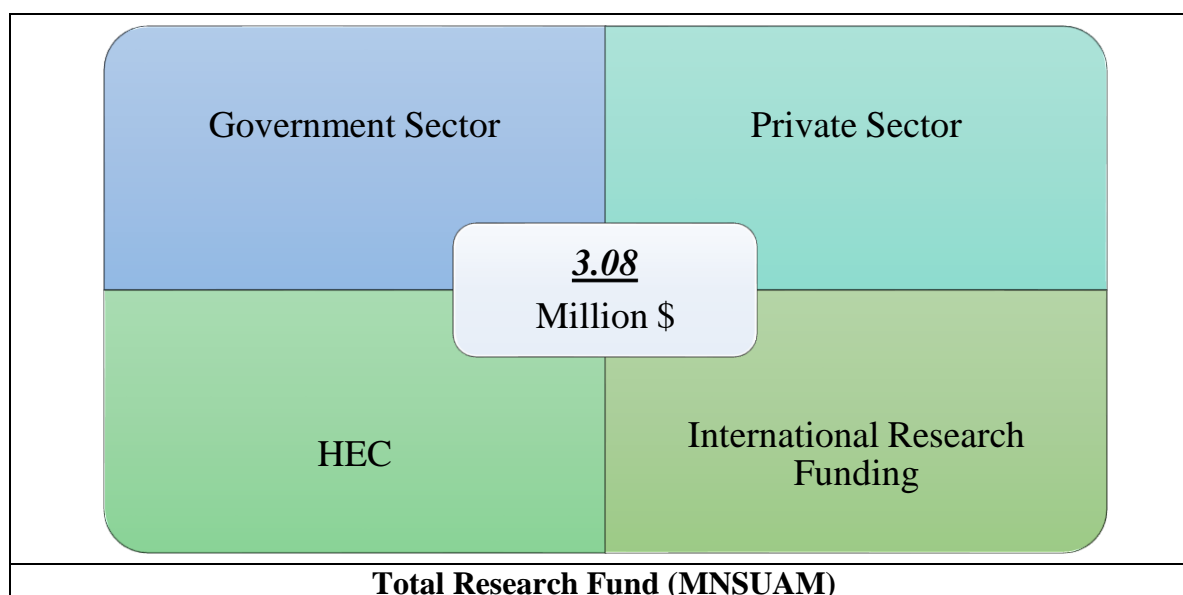
MNS University of Agriculture Multan allocates a significant portion of its budget towards sustainability initiatives, primarily derived from research projects and funding from both government and private sources. The university prioritizes the allocation of these resources to support various sustainable endeavors and projects, reflecting its commitment to environmental and societal well-being.

Research funds of the following years:

Year	Amount in (USD)
Total research fund dedicated to sustainability research in 2023-2024	2,371,718.41
Total research fund dedicated to sustainability research in 2022-2023	3,637,356.52
Total research fund dedicated to sustainability research in 2021-2022	1,384,275
Average	2,464,449.976

Total Research Funds (in US Dollars)

Year	Amount in (USD)
Total research funds in 2023-2024	3,080,153.78
Total research funds in 2022-2023	5,435,516.52
Total research funds in 2021-2022	3,340,000
Average	3,951,890.1



Sustainability Related Publications

MNS-University of Agriculture Multan has following scholarly **publications on sustainability** in the following academic years:

Years of Publications	Total Publications
2021-2022	281
2022-2023	208
2023-24 (Research Articles and Book Chapters) 264+89	353

A total average per annum over the last 3 years of **842 Publications**.

Number of Events Related to Sustainability

MNS University of Agriculture Multan actively hosts a variety of sustainability-related events. These gatherings serve as valuable platforms for disseminating knowledge, fostering discussions, and engaging with the community on matters pertaining to sustainability. Through these events, the university promotes awareness and understanding of sustainability issues, contributing to the broader mission of creating a more environmentally conscious and socially responsible society.

Total number of events related to environment and sustainability hosted or organized by the University in the following academic years.

2023-24: 78

2022-23: 66

2021-22: 50

A total average per annum over the last 3 years of 65 sustainability events organized by university (e.g. conferences, workshops, awareness raising, practical training, etc.)











Observing World Environment Day at MNS- University of Agriculture Multan



“Say no to Plastic” Idea Competition on Sustainability Models for benefiting household Individual



“Say no to Plastic” Awareness Campaign



Road Safety Seminar Organized in Collaboration with Highway and Motorways Police



Training on: How to respond in emergency situations



Public Health Society Initiatives and Activities



Plantation Drive In collaboration with Engro Fertilizer Pvt. Pakistan



Workshop on Birds Feeding (Initiative to conserve wildlife species)

NOVEMBER 2023

ORIC NEWSLETTER



Capacity building workshop on “Soil Sampling Techniques and Methodology”



MNS University of Agriculture, Multan, in collaboration with PepsiCo, conducted a comprehensive capacity building workshop on "Soil Sampling Techniques and Methodology" on November 14, 2023. This workshop garnered participation from ten members of PepsiCo, Pakistan. Dr. Umair Riaz, Assistant Professor, Department of Soil and Environmental Sciences and Dr. Abid Hussain, Manager Industrial Linkages both served as distinguished resource persons. Moreover, Mr. Fahad Aslam, the Regional Manager, Argo PepsiCo, Multan, also participated in the workshop.

The workshop was specifically organized to enhance the proficiency of participants in soil sampling, particularly within potato cultivation regions. The collaboration between MNS University of Agriculture Multan and PepsiCo aims to provide crucial soil and water testing services. Both entities are strongly dedicated to and actively engaged in advancing sustainable development goals.



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ORIC NEWSLETTER



Smog Awareness Seminar

MNS University of Agriculture, Multan, in collaboration with FC College Lahore University, the National Disaster Management Authority successfully organized a comprehensive smog awareness seminar on November 16th, 2023. Dr. Derk Bakker, Associate Professor, Department of Environmental Sciences, FC College University, Lahore, and Ms. Saleha Ali from the National Disaster Management Authority, addressed the critical issue of combating smog.

The program commenced with the recitation of verses from the Holy Quran, followed by a brief address on smog by Dr. Ahmad Mahmood, Assistant Professor, Department of Soil and Environmental Science. He highlighted the severe impact of smog on the air quality of almost all major industrial cities in Pakistan, attributing it to the absence of urban plantation, especially in Multan, leading to a significant decline in air quality and a rise in various diseases.

Prof. Dr. Tanveer ul Haq, Chairman, Department of Soil and Environmental Sciences, emphasized university's ongoing commitment to addressing environmental and agricultural challenges. He expressed gratitude to Dr. Derk Bakker, Dr. Shazia Akhtar, Deputy Manager, National Disaster Management Authority, Nasir Chughtai, National Disaster Management Authority, Ms. Saleha Ali, and Sana Afan for their valuable contributions to the seminar.

Dr. Derk Bakker delivered the talk on smog in Punjab, its causes and effects.

Following Dr. Baker's presentation, Mr. Nasir Chughtai initiated a discussion on disaster management processes. He then invited Ms. Saleha Ali, to discuss various government projects and methods to reduce smog, particularly applauding the efforts of universities and research institutes. A significant number of representatives from student societies, government institutions, and faculty members from various disciplines attended the seminar.

The seminar concluded with the concluding remarks of Dr. Ahmad Mahmood. He extended gratitude to the guests and attendees, acknowledging the vision of Vice Chancellor MNS of Agriculture, Multan, Prof. Dr. Asif Ali (T.I). The university's commitment to collaborative efforts with stakeholders for sustainable solutions to environmental and agricultural challenges was emphasized during the event.



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ORIC NEWSLETTER



Visit of ACIAR Team under the project : “Adapting to Salinity in the Southern Indus Basin”

ACIAR TEAM paid a three day field visit to MNS-University of Agriculture, Multan under project titled “Adapting to Salinity in the Southern Indus Basin” from 18th to 21st November, 2023.

This visit involved a field visit to Jalalpur Pirwala Site, including co-inquiry and co-research experiments, along with meetings with local farmers. The also visited the farm of project’s farmer to observe vertical gardening experiments and pomegranate orchards, followed by visits to acacia and kitchen gardening experiments.

On third day, they visited Irrigation Department, Bahawalpur with a subsequent meeting with the Prof. Dr. Asif Ali (T.I), Vice Chancellor, MNSUAM. The comprehensive visit was aimed to provide the ACIAR team with insights into salinity adaptation efforts in the Southern Indus Basin through field visits, farmer interactions, and discussions with irrigation officials and university researchers.



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NOVEMBER 2023

ORIC NEWSLETTER



Training Session on: **"Safe Use of Chemicals & Pesticides"**

MNS University of Agriculture, Multan, organized a training session on safe use of chemicals and pesticides on November 16th, 2023. Training session was attended by representatives from academia, industry and students. The session featured informative talks by industry experts.

Mr. Faheem from Field Solution and Mr. Asim of Bayer Crop Sciences discussed the safe application of chemicals and pesticides in agricultural fields. Moreover, a practical hands-on training session was conducted by Mr. Mubeen Iqbal from Bayer Crop Sciences, focusing on proper pesticide application techniques.

About 150 students participated in this training session and they were provided with safety kits.

The event concluded with a lively Q&A session and concluding remarks by Prof. Dr. Asif Ali (T.I), Vice-Chancellor, MNS University of Agriculture, Multan.



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Seminar on:

Getting Ready for Global Leadership Role in Climate Change

Department of Soil and Environmental Sciences, MNS-University of Agriculture, Multan organized a seminar on "Getting ready for Global Leadership Role in Climate Change" on November 22, 2023. The Vice Chancellor Prof. Dr. Asif Ali (T.I) was the chief guest of the event. Vice Chancellor in his address said that Pakistan is fifth in the list of countries most affected by climate change. He expressed his concerns regarding worsening situation of smog in this month, which has made living in big cities miserable. The keynote speaker of the seminar was Mr. Usman Haider, Political Affairs Officer, United Nations (Kenya, Nairobi). He briefly served in Pakistan Army until 2006 until he joined United Nations and has been with several of its missions ever since. He acquainted the students to the actions taken by the United Nations to combat climate change and emphasized on raising awareness at the level of the society as well as participating in an effective and practical manner. Encouraging the students, he said that by being associated with an international organization like the United Nations, the youth can not only serve the country in a better way, but can also make the best decisions for the country's interests and can also change the opinion of the world in a positive way. He also said that being the students of an agricultural institution, they can become part of the coalition of environmental activities in the United Nations subsidiary bodies to reduce the emission of greenhouse gases worldwide, increase inclusivity, find nature-based solutions and sustainable energy. He added that it is important for all of us to recognize the enormity of the challenges we face, acknowledge them and show perseverance and determination to overcome them. He recommended students to start by improving their communication skills and exploring key strengths, qualities and areas of improvement. He further added that identifying your core values and strengths and their application to an allocated task can bring you success and satisfaction. Prof. Dr. Tanveer ul Haq, Chairman, Department of Soil and Environmental Sciences said that such programs are welcome and such programs should be continued in the future so that the students of the university can get the best employment opportunities. The seminar was concluded with the concluding remarks of Dr. Muqarrab Ali.



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AFS VENTURE SPARK

A two-day Agriculture Food and Security Ventures Spark event occurred at MNS University of Agriculture, Multan on 29th and 30th November, 2023. More than 155 stalls were displayed by 35+ universities from all over Pakistan showcasing the business ideas of students and Industrialists. Chief Guest of the ceremony Shoukat Anjum said that these young aspirants of today will play a major role in the development of the country in future. On this occasion, Prof. Dr. Asif Ali (T.I), Vice Chancellor, MNSUAM, appreciated the business ideas of the students and said that their efforts will help to boost the economy of the country.

The Vice Chancellors from MNS-UET, Multan, BZU, Emerson University, Women University and Cholistan University were also present and appreciated the efforts to arrange this healthy event.



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International Conference on **“Artificial Intelligence and Emerging** **Technologies” (ICAIET)**

The Institute of Computing, MNS University of Agriculture, organized a two-day International Conference on Artificial Intelligence and Emerging Technologies on November 29th and 30th, 2023. Keynote speakers from five international universities included Prof. Stephen Marsland from Victoria University of Wellington, New Zealand; Dr. Mickael Coustaty from La Rochelle University, France; Dr. Nadeem Abbas from Linnaeus University, Sweden; Dr. Asiya Khan from the University of Plymouth, England; and Dr. Waqas Haider Bangyal from Kohsar University, Murree. The conference comprised five technical sessions with the following themes:

1. Integrated Intelligence: AI-driven Predictive Analysis, Data Mining, and NLP
2. Application of AI and Sustainable Agriculture
3. Integrated Technologies in Life Sciences and AI
4. IoT for Smart Farming, Health & Education
5. Security and Innovation in Cloud Computing and Blockchain Technology

Best Paper awards in each technical session and best poster award were presented. The Prof. Dr. Asif Ali (T.I), Vice Chancellor, MNS University of Agriculture, expressed appreciation for the collaborative efforts of all involved in making this conference informative and impactful."



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International Conference on: **“Fodder Production in Climate Shift Paradigm:** **Better Nutrition for Better Dairy Production”**

MNS University of Agriculture, Multan, organized an International Conference on 'Fodder Production in the Climate Shift Paradigm: Better Nutrition for Better Dairy Production' from 29th to 30th, November 2023. In this conference, scientists, researchers, and stakeholders from America, Argentina, Algeria, China, academia, pesticide and seed industries, FAO, and extension workers participated. The Vice-Chancellor, Prof. Dr. Asif Ali (TI), welcomed all the participants and highlighted the importance of fodder and dairy. He emphasized mechanized production and storage of fodders to fulfill the needs of livestock and ensure quality dairy and meat production, especially in developing countries.

Daniel H. Putnam, from the University of California, Davis, USA, explained the need for cultivation and promotion of Alfalfa in Pakistan, emphasizing its yield potential and soil fertility benefits. Moreover, Dr. Daniel Basigalup from Argentina elaborated on alfalfa breeding trends in the near future. Mr. Timothy Blank, Director of Seed Certification, California Crop Improvement Association, explained certified seed production systems for forage crops. Prof. Dr. Tanveer Ahmad, Chairman, Department of Clinical Sciences, Bahauddin Zakariya University, Multan, elaborated on feeding or nutritional strategies for animals with health issues.



Mr. Ahsan M. Bajwa from Farm Dynamics explained mechanized farming for better fodder production and processing along with the concept of corporate farming. Vice-Chancellors from Cholistan University of Veterinary and Animal Sciences, Bahauddin Zakariya University Multan, and Women University Multan also attended the inaugural session of the conference and appreciated the efforts of MNS University of Agriculture for upscaling fodder production in the current scenarios of climate change and economic crises. A total of forty-six talks were presented in the conference, and speakers were from America, Argentina, Algeria, and China. At the end, souvenirs were distributed to invited speakers."

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BREAST CANCER AWARENESS SEMINAR

Public Health Society with the collaboration of Faculty of Veterinary and Animal Sciences organized "Breast Cancer Awareness Seminar" and Poster Competition on 13 October 2023.

The event began with the recitation from the Holy Quran and Naat-e-Maqbool. It was formally commenced with valuable remarks from the esteemed Vice Chancellor, Prof. Dr. Asif Ali (TI), who emphasized the significance of spreading awareness about this critical health issue. Two keynote speakers, Dr. Sidra, a consultant radiologist from Minar Cancer Hospital Multan, and Dr. Qurat-ul-Ain, a Consultant Oncologist from the same institution, delivered insightful lectures. Dr. Sidra shed light on the importance of early diagnosis of breast cancer, stressing the need for regular screenings. Dr. Qurat-ul-Ain shared her expertise on the latest treatments and the prognosis of breast cancer. After that, Dr. Umair Waqas delivered a vote of thanks to the esteemed guest speakers and all the participants for their contributions and participation in making this Breast Cancer Awareness Seminar a resounding success. The event concluded with prize distribution among students and souvenirs of appreciation for the guest speakers.



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WORLD EGG DAY CELEBRATIONS

The Faculty of Veterinary and Animal Sciences organized "World Egg Day" Celebrations on 13th October 2023, highlighting the versatility and significance of eggs. The honorable Vice-Chancellor, Prof. Dr. Asif Ali (T.D), inaugurated the event and expressed appreciation to the organizers and participants. The event included colorful decorations with an egg theme, a display of detailed egg art, an exhibition of eggshell models, and a culinary exhibition with a variety of delicious egg-based dishes.

The celebration concluded with the Egg Walk. Special vote of thanks was extended to all participants, volunteers, and organizers for their enthusiastic participation and efforts by Prof. Dr. Asif Raza, Dean Faculty of Veterinary and Animal Sciences.



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WORLD FOOD DAY-2023 CELEBRATIONS

The Department of Food Science and Technology organized a seminar for World Food Day 2023, with the theme "Water is Life, Water is Food" , on October 16, 2023. Some of the prominent honorable guests of event were worthy Vice Chancellor Muhammad Nawaz Sharif University of Agriculture Prof. Dr. Asif Ali (T.I), Secretary National Food Security Capt.(R) Mr. Muhammad Mahmood and CEO FreshCo Multan Mr. Muhammad Shahzad Hassan. Many industrialists, Officers of Punjab Food Authority, faculty members and students also participated in seminar. The seminar emphasized the importance of water conservation, discussed water-related health issues, and highlighted efforts to improve water quality. At the end of the seminar Miss Abgeenay Khan from Punjab Food Authority distributed PFA ambassador's sashes to selected 30 students of FST department. These students will work as ambassadors of PFA and will take part in many activities to ensure food safety. Souvenirs were distributed among guests for participation in seminar.



6/15

SEMINAR ON DIGITAL SKILLS

The Coding Hawks in collaboration with the Senior Tutor Office, MNSUAM with the technical support from The Virtual University organized a seminar on DigiSkills to enlighten students about digital marketing, e-commerce, and affiliate marketing on October 19, 2023. The guest speaker, Dr. Zafar M. Alvi, Project Director of DigiSkills, shared insights on excelling career as a freelancer. Dr. Salman Qadri, Chairman Department of Computer Science, and Dr. Usman Jamshed, emphasized on the importance of these skills in the academic realm. This seminar bridged the gap between academia and the ever-evolving tech job market, preparing students for success in the digital era.



SOCIAL MEDIA MASTERY: ELEVATE YOUR BUSINESS WITH YOUTUBE AND FACEBOOK

The training session was organized in collaboration with Office of Research Innovation & Commercialization (ORIC) and Business Incubation & Agriculture Entrepreneurship center (BIAEC), MNSUAM under the guidance of Prof. Dr. Mubashir Mehdi (Director BIAEC) and Prof. Dr. Junaid Ali Khan (Director ORIC) held on 12 October 2023 at MNS–University of Agriculture. This session aimed to equip participants with a comprehensive understanding of leveraging YouTube and Facebook for marketing purposes, ultimately enhancing brand profiles and running effective ad campaigns. The training session on Social Media Mastery was directed by profound expert Mr. Abdur Rehman Hout, CEO ADRA Commination's. The training session commenced with a thorough exploration of YouTube marketing. Participants were introduced with the art of crafting a compelling YouTube marketing strategy, emphasizing its significance in the contemporary marketing landscape. The session delved into the importance of creating content that resonates with the target audience, tailoring messages to different demographics, and maximizing brand exposure through YouTube. The trainer further highlighted the various content types that perform well on YouTube, strategies for building an engaging subscriber base, and the role of Search Engine Optimization (SEO) in improving video visibility. The second segment of the session focused on Facebook advertising and running successful ad campaigns. Participants were guided through the process of setting up and optimizing ad campaigns on Facebook, gaining insights into how product positioning impacts branding and marketing decisions.



INAUGURATION OF FRESHCO SENSORY LAB

Freshco Sensory Lab was inaugurated on 16th October 2023 by the Vice Chancellor Prof. Dr. Asif Ali (T.I), Captain (R) Mr. M. Mehmood (Secretary of National Food Security), and Mr. Shahzad Hasan, CEO Freshco. Prof. Dr. Umar Farooq, Dean, Faculty of Food and Home Sciences, expressed gratitude to Mr. Shahzad Hasan, while assuring that this initiative would facilitate future sensory-based research and development. The lab will be useful for conducting sensory analysis of various food products created by students and industries. Freshco Sensory Lab is expected to transform the food industry and academia, providing a platform for different industries to innovate in food product development. During the inauguration Dr. Muhammad Shahbaz, Dr. Shabbir Ahmed, Dr. Nighat Raza, Dr. Sibte Abbas, Dr. Nida Firdous, and Dr. Muhammad Usman were also present.



5/15

PEPSICO TEAM VISITED MNS- UNIVERSITY OF AGRICULTURE, MULTAN

On 17th of October, 2023, representatives from PepsiCo paid a visit to MNSUAM. The primary focus of this visit was to discuss Potato Crop Nutrients Management, Soil Testing, and the Capacity Building of Human Resources at PepsiCo. The agenda also emphasized Research and Development (R&D) in potato crop management with the goal of increasing crop yields.

Overall, this meeting served as a platform for fruitful discussions on enhancing the potato crop's productivity, with a clear objective of addressing key challenges in modern agriculture.



SYNGENTA-MNSUAM ONLINE MEETING SESSION TO UNDERSTAND BIOLOGICALS PRODUCTS OF MNSUAM

An online meeting session was conducted with the participation of key members from MNSUAM and Syngenta on October 17, 2023. The meeting started with the welcoming and valuable remarks from the Vice Chancellor, Prof. Dr. Asif Ali (T.1). During the session, Prof. Dr. Shafqat Saeed, Dean, Faculty of Agricultural and Environmental Sciences, along with other faculty members, presented their work on eco-friendly farming to Syngenta. Syngenta's team showed interest in the ideas, and both parties expressed their intent to collaborate in the future. The meeting concluded with the intent to explore potential collaborations, aiming to advance sustainable agriculture through joint research and development, with the expectation of promising future opportunities.



7/15

FOLLOW UP WORKSHOP UNDER ACIAR FUNDED PROJECT “DIGITAL VALUE CHAIN SOLUTIONS FOR SMALLHOLDERS PULSES FARMERS IN PAKISTAN”

The workshop was held on October 25, 2023 at MNS University of Agriculture Multan. There were more than 50 participants including more than 25 pulses growers from Punjab, Researchers from MNS-UAM, UAF & CUI and industrial partners from Concave Agri. Prof. Dr. Mubashir Mehdi, PI (ACIAR ARSF 19 Project), Dr. Burhan Ahmad (National Coordinator ACIAR Pulses Value Chain Project), Dr. Umar Ijaz Ahmed (Co-PI, ACIAR ARSF 19 Project), Dr. Haseeb Raza (Co-PI, ACIAR Pulses Value Chain Project), Mr. Ali Iqbal, CEO Concave Agri were also present. The session started with a recitation of the Holy Quran. Dr. Mubashir Mehdi welcomes all the participants and starts the proceedings of the workshop. Dr. Burhan Ahmad shared his experiences during the Pulses Value chain Project with the participants and the need for the digital marketing tool for direct access of farmers to consumers. He also discusses the demonstration of digital value chain which was carried out in Chakwal and it's a great success. Mr Ali Iqbal, The CEO of Concave Agri (a leading online platform) shared his experience in the demonstration of digital value chain and praised the participation of farmers. He said that Thanks to the ARSF project which has provided us opportunity to procure good quality pulses for our online businesses and advisory services to farmers. He is hopeful that this collaboration will be more beneficial for all stakeholders. The farmers from Lawa, Chakwal, said that we have found a great opportunity to find new ways of selling and marketing our produce which will strengthen our businesses. The farmers from Layyah and Bhakkar are also willing to participate in the digital value chain. Dr. Mubashir Mehdi thanked all stakeholders for completing the project milestones and successfully demonstrated the digital value chain of pulses.



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MOU SIGNING CEREMONY WITH GOLD TREE MILLER PVT LIMITED

MNS University of Agriculture, Multan, signed an MOU with Gold Tree Miller Pvt on September 4, 2023. This partnership focuses on enhancing garlic cultivation for 2023 and expanding into value addition projects like garlic paste and powder. Prof. Dr. Asif Ali (TI), the Vice-Chancellor, and Prof. Dr. Abdul Rahman, Chairperson Gold Tree Miller Pvt. Ltd expressed the importance of academia-industry collaboration and optimism about the partnership's potential.



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NATIONAL WEBINAR ON “SOIL POLLUTION & SDGS

The Department of Soil and Environmental Sciences at MNS University of Agriculture, Multan, organized a webinar on 19 September, 2023. Prof. Dr. Tanveer ul Haq, Chairman, Department of Soil Science welcomed all the participants. Distinguished speakers, Prof. Dr. Muhammad Shahid from Comsat University Islamabad, Vehari Campus, and Prof. Dr. Azeem Khalid from PMAS-Arid Agriculture University Rawalpindi, shared their expertise on soil pollution, its far-reaching consequences, and potential remedies..

There were 317 participants from various national and international research organizations. Prof. Dr. Azeem Khalid discussed soil pollution's impact on Sustainable Development Goals (SDGs), including threats to biodiversity, agriculture, and human health. Prof. Dr. Muhammad Shahid talked about soil pollution, toxic metals, and remediation techniques, highlighting the health risks and crop selection based on research. The event aimed to raise awareness of the importance of addressing soil pollution for sustainable development.



INTERNATIONAL CONFERENCE ON RESHAPING COTTON PRODUCTION IN PUNJAB-II: LEARNING FROM GLOBAL BEST PRACTICES

On September 28, 2023, the Muhammad Nawaz Shareef University of Agriculture Multan (MNSUAM) hosted a conference, exploring various facets of cotton production, both locally in Punjab and on a global scale. The event commenced with the recitation from the Holy Quran and was officially inaugurated by Vice-Chancellor Prof. Dr. Asif Ali (T.I). Dr. Ali addressed numerous challenges in cotton production and highlighted various projects, both local and international, designed to address these challenges. He expressed gratitude to all participants, including distinguished guests like Dr. Judith K. Brown from the USA and Mr. Li Huaxin from China for their invaluable contributions.

The conference featured several informative presentations, beginning with an overview of the current state of cotton production in Punjab and Pakistan by the Director of CCRI Multan. Dr. Sagir then discussed the critical aspects of the cotton seed system, emphasizing its role in boosting cotton production. Dr. Judith K. Brown presented on 'Global Phylogenomics of Bemisia tabaci and Phylodynamic Snapshots in Pakistan,' shedding light on this significant insect pest in cotton production from both local and global perspectives. Following this, Mr. Asif Majeed discussed 'Whitefly Management,' outlining strategies to combat whitefly infestations in cotton cultivation. Prof. Dr. Muhammad Iqbal provided a comprehensive outlook on the 'Present Situation and Future Prospects of Cotton Production in Pakistan,' while Dr. Javed Iqbal explored the virology associated with cotton production.

The conference not only identified challenges in cotton production but also proposed solutions and innovative approaches inspired by global best practices. Concluding remarks were delivered by Dr. Zulqurnain Khan and Syed Hassan Raza of Neelam Seed. In a consultative session, the cotton committee deliberated on a 'Cotton Production Strategy 2024,' addressing critical issues such as crop decline, insect control, crop duration, and disease management. The conference served as a valuable platform for reshaping cotton production through informed and strategic approaches.



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TRAINING WORKSHOP ON “POLICY DIALOGUE ON PESTICIDES RISK DETECTION IN PAKISTAN”

The Institute of Plant Protection collaborated with CABI PlantwisePlus, Pakistan, to organize a significant policy dialogue on pesticides risk detection in Pakistan on August 10, 2023. The workshop seek participation from around 40 experts representing academia and industry, including notable institutions such as Bahauddin Zakariya University, Multan and University of Agriculture, Faisalabads. Dr. Falak Naz, Member Coordination at PARC, extended a warm welcome to all participants and unveiled the workshop's objectives. Dr. Muhammad Naeem Aslam Malghani, CCC PlantwisePlus, delivered an informative briefing on CABI's ongoing activities and future plans within Pakistan. He emphasized CABI's commitment to advancing agricultural practices, food security, and sustainable farming methods through its various programs. Dr. Malghani also highlighted CABI's vision for expanding its reach across different regions of Pakistan through collaboration with local stakeholders, including farmers and governmental bodies. The workshop underscored CABI's global leadership in pest management and biosecurity through Horizon Scanning and Pest Risk Analysis programs. These initiatives enable CABI to provide science-based recommendations to protect agricultural systems, ecosystems, and livelihoods. Dr. Zeeshan IPEP, PARC-NARC, presented findings from MRLs studies on tomatoes in Pakistan, emphasizing the importance of safety in pesticide use. Compliance with regulatory standards, Good Agricultural Practices (GAP), and EU MRL standards for export were discussed. Dr. Ijaz, Senior Scientific Officer, highlighted the significance of proper pesticide handling to minimize health and environmental risks. Secretary Agriculture South Punjab, Mr. Saqib Ali Ateel, discussed trials, field failures of pesticides, and the use of biopesticides in Punjab. He emphasized the role of Integrated Pest Management (IPM) to reduce reliance on synthetic pesticides. Monica Kansime, Deputy Director at CABI, provided insights into CABI's activities and her role in coordinating teams in Africa and Asia for the PlantwisePlus program. Dr. Raza Ullah, University of Agriculture, Faisalabad, shared findings on food safety knowledge, attitude, and practices of rural and urban consumers in Pakistan. Mr. Saleem Ashraf, University of Agriculture, Faisalabad, discussed a Situation Analysis Study on pesticide use and safer food in rural areas, focusing on associated risks and impacts. Prof. Dr. Asif Ali (TI), Vice Chancellor, MNS University of Agriculture, Multan, highlighted the importance of accurate pesticide application techniques and the need for a pest infestation warning system. Dr. Falak Naz (Member Coordination PARC) concluded the workshop, expressing commitment to disseminate key findings to the farming community.



5/14

THE 76TH INDEPENDENCE DAY CELEBRATIONS

The day commenced with Vice Chancellor Prof. Dr. Asif Ali (T.I.) proudly hoisting the national flag. The students and faculty came together for a delightful cake cutting ceremony. The Rover Scouts Unit organized this heartwarming event, with support from the Senior Tutor's Office. The Madrasah students recited verses from the Holy Quran in memory of the martyrs of Tehreek-e-Pakistan.

Prof. Dr. Asif Ali and a foreign delegation took part in a tree-planting initiative. They planted saplings in the Central Mosque, promoting environmental sustainability. Dr. Fawad, Dr. Muqarrab, and students also contributed by planting saplings behind the Academic Block. This initiative was organized by the Plant for Life Society.

A debate competition was organized by the Debating Club. The Senior Tutor's Office provided support and rewarded winners with debating books and diaries. The day concluded with a mesmerizing Cultural Night, commenced with the National Anthem. Distinguished foreign delegates from Belgium, Australia, Africa, Senegal, and Dubai were present alongside Vice Chancellor Prof. Dr. Asif Ali (TI).

The Arts & Dramatic Club dazzled the audience with a cultural performance, while the Mosigala Beat group delivered captivating national songs. The Rover Scouts Unit added to the visual treat with a mesmerizing tableau.

The Cultural Night concluded with the kind remarks of Prof. Dr. Asif Ali (TI).



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<https://mnsuam.edu.pk/images/extra/oricaugust.pdf>

PAKISTAN MANGO FESTIVAL AT THE CHINA EURASIA COMMODITY AND TRADE EXPO-2023 IN URUMQI, CHINA

The Ministry of Commerce, in collaboration with the Trade Development Authority of Pakistan (TDAP), organized the Pakistan Mango Festival at the China Eurasia Commodity and Trade Expo-2023 on August 17, 2023, in Urumqi, China. The event was graced with the joint inauguration by the Governor of Xinjiang, Senator Rana Mahmood-ul-Hassan, and the former Federal Minister, Professor Ahsan Iqbal. The MNS University of Agriculture, Multan also participated in this Festival as the collaborator and organizer.

Senator Mahmood-ul-Hassan recalled the historical significance of "Mango diplomacy," harking back to the 1960s when Pakistan's Foreign Minister presented mangoes to Chairman Mao Zedong. He emphasized the uniqueness of Pakistani mangoes, renowned for their exquisite taste and aroma, and celebrated Pakistan's status as the 6th largest mango producer and 4th largest exporter globally. He extended a warm invitation to Chinese experts and investors to explore opportunities in Pakistan's food processing industry.

Professor Ahsan Iqbal commended the organizers for providing a platform to showcase Pakistani mangoes and highlighted the pivotal role of the China-Pakistan Economic Corridor (CPEC) under President Xi Jinping's leadership. He underscored how CPEC had transformed Pakistan's economy by delivering essential infrastructure and energy projects precisely when needed, marking the 10th anniversary as a landmark occasion.

Pakistani mango experts eloquently described the characteristics of White Chaunsa mangoes, treating the Governor and other dignitaries to a special mango platter and "Mango Lassi." The festival drew a diverse audience of local and international business leaders.

The Pakistan Mango Festival extended its delightful offerings until August 21, 2023.



AWARENESS SESSION FOR AUTHORIZED USERS OF REGISTERED GIS CHAUNSA AND SINDHRI MANGOES

The awareness session was Jointly organized by MNS-Agriculture University, Multan, and IPO-Pakistan for Authorized Users of Registered GIs Chaunsa and Sindhri Mangoes on August 21, 2023. It aimed to educate on Pakistan's Geographical Indications system and empower small businesses through Intellectual Property. The session commenced with a Quranic recitation. The Vice Chancellor Prof. Dr. Asif Ali (TI) welcomed attendees. Mr. Muhammad Ismail explained the GI system's importance. Ms. Noor Asfia shared strategies for supporting the Sindhri Mango Project. Participants contributed to the WIPO Project through survey forms. A Q&A session encouraged discussions. This session reflects the dedication of both institutions to protect Pakistan's GIs and empower small businesses through Intellectual Property. It encourages further exploration of GIs in Pakistan's agriculture.



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<https://mnsuam.edu.pk/images/extra/oricaugust.pdf>

SEMINAR ON ELEVATE YOUR SME PITCH: EFFECTIVE TECHNIQUES FOR ENGAGING INVESTORS AND FUNDRAISING TRAINING SESSION

The seminar was collaboratively organized by the SMEDA, Multan Pakistan and Business Incubation and Agriculture Centre (BIAEC), MNS-University of Agriculture Multan. The training session was held on the 25th of August 2023 at Sybrid Hall, A-block MNSUAM, and was led by Ms. Benish Sarfraz, Manager BIAEC and Ms. Khadija Zubair, Business Development Officer BIAEC under the guidance of Prof. Dr. Mubashir Mehdi, Director BIAEC and Prof. Dr. Junaid Ali Khan, Director ORIC.

The session aimed to equip participants (incubatee companies of BIAEC) with the essential tools for creating impactful pitches and engaging investors for successful fundraising endeavors. The seminar was led by Mr. Waqar Tayyub, Master Trainer from SMEDA, having a professional experience for over a decade. The session commenced with an insightful overview of the art of pitching and its crucial role in securing investment. Mr. Waqar Tayyub stressed that a well-crafted pitch is the foundation for capturing investors' attention and gaining their trust. He also highlighted the importance of concisely communicating the core essence of the business, its unique value proposition, and the problem it aims to solve. Participants were encouraged to embrace storytelling techniques that resonate with the audience and underline the market demand. During the training session, participants were also guided on the usage of compelling visuals as an essential element of creating impactful pitches. In this session, participants presented their pitch presentations, and Mr. Waqar provided real-time evaluation and feedback on each presentation. His insightful feedback aimed to help participants enhance their pitch presentations further. The session concluded successfully, arming the incubates with valuable knowledge and tools to confidently engage with investors, consequently securing funding for their start-ups.



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FACULTY PROFESSIONAL DEVELOPMENT TRAINING PROGRAM

Department of Outreach and Continuing Education, MNS-University of Agriculture, Multan has organized a Faculty Professional Development Training Program (FPDTP) for the young faculty members (Lecturers and Assistant Professors) from August-28 to September-1, 2023. Various resource persons including university officials, professional trainers, and resource persons from outside the university were invited for different modules and sessions. Altogether, 23 young faculty members participated in the training program and discovered it to be a unique experience which has immensely increased their capacity building. The training was a unique blend of lectures and practical activities which helped the participants to improve their professional skills.

The Vice Chancellor, MNS-University of Agriculture, Multan, Prof. Dr. Asif Ali (T.I.) discussed about the university governance system and teaching as a profession. He said "I believe that the most important resource that any institution of higher education has is its faculty members who teach knowledge and skills to students". The Vice Chancellor, applauded the contribution of Office of Outreach and Continuing Education in professional development of faculty. Similarly, other university officials discussed about the working of different offices including ORIC, Registrar Office, Controller's Examination, QEC, and Treasure's Office. Professional trainers and the resource persons from other organizations discussed about the visionary leadership, leadership development, personality development and presentation skills.

Panel discussion was on last day of training in which Prof. Dr. Irfan Ahmed Baig Dean Faculty Social Sciences and Humanities along with Prof. Dr. Umar Farooq (Dean, FFHS) and Prof. Dr. Muhammad Asif Raza (Dean, FVAS) participated and asked the participants to give suggestion and feedback about the training. They discussed that faculty members need to be prepared enough by such types of faculty development programs in order to deal with the rapid changes and shifting paradigms in education. They also appreciated the focal person of FPDTP and advised him to address all the genuine issues raised by the participants for the next training program. At last, they distributed certificates among the training participants.



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AWARENESS SEMINAR *on* **GLOBAL IODINE DEFICIENCY DISORDERS PREVENTION DAY**

20 OCT 2023 Time: 9:30

ORGANIZED BY:
 Department of
 Human Nutrition and Dietetics
 Faculty of Food and Home Sciences
 MNS-University of Agriculture, Multan

In Collaboration with
Nutrition International

Venue: Academic Block
 Seminar Hall Room No. 132



Observing Plant Appreciation Day



Plantation Drive with Multan Lions International Club



Model Demonstration: Kitchen Gardening



Save Forest Campaign in Collaboration with South Punjab Forest Department



Monsoon Plantation-Through Seed Ball Technique

Cultural activities on campus (e.g. Cultural Festival) including virtual activities



Venture Spark 2023

<https://www.youtube.com/watch?v=gAokgJ6Sckg&t=602s>



Cultural Night-Mango Festival-2023

<https://www.youtube.com/watch?v=gKxOF3d69pY>



Culture Day on Independence Day-2023

<https://www.youtube.com/watch?v=TyTn9Dr26WA&t=56s>



Cultural Sports-Tent Pegging 2023

<https://www.youtube.com/watch?v=oeb3acF2uK0>



Open Theatre Day/Students Clubs/Societies Day at MNS-UAM
<https://www.youtube.com/watch?v=njD0glsvZZQ>



MNSUAM Winter Festival-2023

<https://www.youtube.com/watch?v=2SXWafOUDW8>



Spring Festival 2024

<https://www.youtube.com/watch?v=8Q7gVei9O-s&t=77s>



Happiness Week-Cultural Exhibition



Cultural Food Fest Competition
<https://www.facebook.com/share/p/LWzyP2fN2ubaLo3R/>



Music Fest

<https://www.facebook.com/share/p/ChaaU9szGZKF8JyG/>



South Punjab Literary Festival

<https://www.facebook.com/share/p/JY6Vk7HgNmdG1mok/>



Football Championship 2023-24

<https://www.facebook.com/share/p/CcNp5suvfaeiEXNN/>

University sustainability program(s) with international collaborations

List of International Academia Collaborators:

- Plant Protection Research Institute Guangdong Academy of Agricultural Sciences, Guangzhou, China
- Institute of Plant Protection and Soil Science Hubei Academy of Agricultural Sciences, Wuhan, China
- Hebei Institute of International Business and Economics, China
- Mevlana Exchange Program Protocol
- Tashkent State Agrarian University, Republic of Uzbekistan
- University of Gambia, Republic of the Gambia
- Cotton Molecular Breeding Laboratory Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, Beijing China
- School of Environmental Science and Engineering, Shandong University, China
- Group of Cotton Genetics Improvement (GCGI), Huazhong Agricultural University (HZAU), Wuhan, China
- Hochschule Geisenheim University, Geisenheim
- University of California Davis, CA, USA
- National Agricultural Technology Institute Cordoba, Argentina
- University of Sri Jayewardenepura, Sri Lanka
- Alanya Alaadin Keykubat University, Turkey, Mevlana Exchange Program
- Shihezi University, Xinjiang, China
- Tonglu County Peoples's Government, China
- School of Vehicle and Mobility, Tsinghua University, Beijing, P.R. China
- Plant Protection Research Institute, Guangdong Academy Agricultural Science, Guangzhou, Guangdong, China
- College of Agriculture and Biotechnology, Zhejiang University, Hangzhou, China
- The National Institute of Agricultural Technology, Argentine Republic
- University of Canberra, Australia
- Okinawa Institute of Science and Technology School Corporation, Japan
- EBERWALDE University for Sustainable Development, Germany
- Collaboration Agreement between Razbio Ltd, UK, & Swansea University, UK & MNS-UAM
- University of Bonn, Germany
- Millat Education Foundation, Inc., USA
- Distinguished Innovation Collaboration and Entrepreneurship (DICE)
- Letter of Intent with FAO
- TSAU Taskent State Agrarian University, Uzbekistan
- Jiangsu University, China
- Tianjin Modern Vocational Technology College, China
- Selcuk University, Konya, Turkiye
- Gebze Teknik University, Kacaeli Turkiye
- Centre for Pesticide Suicide Prevention, Queen's Medical Research Institute, Edinburgh

- Joining the Silk Road Asia Europe Universities (Vocational Education) Alliance
- Agricultural Research Center (ARC) of the Ministry of Agriculture and Land
- Reclamation of the Arab Republic of the Egypt
- Istanbul Gelisim University, Istanbul, Turkiye
- Konya Food and Agriculture University, Konya, Turkiye

List of International Industries Collaborators:

- Wuhan Guoging Seed Co. Ltd., China
- Better Cotton Initiative (BCI), Geneva, Switzerland
- Oaks CAF Private Limited (Oak's), South Korea
- Razbio Limited (Pvt), UK
- Niha Corp, A California Corp-USA
- International Water Saver Environmental Services
- South Asian Conservation Agriculture Network (SACAN)



International Academia Collaborations



For more about International Collaboration:

University Annual Report 2023- 24	Available on Page no. 262 to 273	https://techprojects.mnsuam.edu.pk/sustainability/wp-content/uploads/2024/09/Annual-Report-Sustainability-2023-24.pdf
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Sustainable Startups

Sr. No.	Name of Startup	Idea	Sector / Field
1	Bytes Software Development Private Limited	IT Solutions	IT
2	Sharan Herbal and Food Supplement	Herbal Products	Herbal Products
3	AlSaif	Food market	Food market
4	Multan Fresh Honey	Beekeeping	Beekeeping
5	New Age Leaf	Vermicomposting	Vermicompost
6	Green Revolution	Agro-Services	Agro-Services
7	SmarTrapS	Agri Services & IT solutions	Agri Services & IT solutions
8	MINISOL CONSULTANTS (PVT) LTD	Consultancy Marketing, Farming and Bio-Tech	Consultancy Marketing, Farming and Bio-Tech
9	Green Agri-Tech	Agri Services including Consultancy	Agri Services including Consultancy
10	Managers	Event Management	Event Management
11	Abrish Honey	Community Service	Honey Production
12	Green Agriculture Services	Consultancy and Marketing Services	Consultancy and Marketing Services
13	Puchick	Online Platform	Online Platform
14	Uni Value Food	Marketing of development of value-added products from fruits and vegetables	Marketing of development of value-added products from fruits and vegetables
15	Event – X	Event Management	Event Management
16	Multi-grain Flour	Food product	Food product
17	AgroMart Sevices	Services	Services
18	Uni Fresh Water	Marketing	Marketing
19	F.M Marketing Alternate Energy	Environmental Solution	Environmental Solution
20	RS Organic Food	Food Business	Food Business
21	Garden Doctor	Horticulture Services	Horticulture Services
22	Paradise Foods and Catering	Catering	Catering
23	Organic Agri Lines	Horticulture Services	Horticulture Services
24	Smart Storage Chamber (Store Karo!)	Agro Services+ IT Solutions	Agro Services+ IT Solutions
25	Mango Trace	Agro Services+ IT Solutions	Agro Services+ IT Solutions
26	Microbiome	Bio-Pesticides production and commercialization	Bio-Pesticides production and commercialization

27	Value-Added Fish Products	Food Business	Food Business
28	Incubator For Chicken	Hatchery Business	Hatchery Business
29	Stress Saviour Pvt. Ltd	Stress Control Consultancy Services	Stress Control Consultancy Services
30	1.50-kilowatt Triple Repulsion BLDC MVP Motor	Motor Manufacturing	Motor Manufacturing
31	Solar Drier (Fresh DRI)	Food Business	Food Business
32	Mango	Mango production and export	Mango production and export
33	Entrepreneurial Tri-hallux Automatic egg hatching and breeding control system	Hatchery Business	Hatchery Business
34	Graphic Designing Services & Coaching Services	Digital Marketing and Graphic Designing	Digital Marketing and Graphic Designing
35	Organic Moringa Powder	Organic Moringa Powder	Organic Moringa Powder
36	Mango and related products	Mango Business	Mango Business
37	Ever Fresh Online Nursery	Online Nursery Business	Online Nursery Business
38	Fielder's	Food Business	Food Business
39	Dattecs	Digital Marketing	Digital Marketing
40	Mr Meat	Meat and Food Business	Meat and Food Business
41	H.w. enterprise smc private limited	Honey Production	Honey Production

Fore more about startups:

Annual Report 2023-24	Available on Page no. 71 to 73	https://techprojects.mnsuam.edu.pk/sustainability/wp-content/uploads/2024/09/Annual-Report-Sustainability-2023-24.pdf
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Additional Links

University Annual Report 2023-24	https://techprojects.mnsuam.edu.pk/sustainability/wp-content/uploads/2024/09/Annual-Report-Sustainability-2023-24.pdf
Newsletter July 2023	https://mnsuam.edu.pk/images/extra/JuneJulyNewsletter.pdf
Newsletter August 2023	https://mnsuam.edu.pk/images/extra/augustfile.pdf
Newsletter September & October 2023	https://mnsuam.edu.pk/images/sepoctnews_11zon.pdf
Newsletter November & December 2023	https://mnsuam.edu.pk/images/Advertisements/2024/jan_24/Nov-Dec.pdf
Newsletter January & February 2024	https://mnsuam.edu.pk/images/Academics/Jan- Feb_News.pdf
Newsletter March & April 2024	https://mnsuam.edu.pk/images/Reseaech/reports/2024/March_April_news.pdf
Newsletter May & June 2024	https://mnsuam.edu.pk/images/download/May_june_compressed_1.pdf

ORIC Newsletter July 2023	https://mnsuam.edu.pk/images/extra/july2023.pdf
ORIC Newsletter August 2023	https://mnsuam.edu.pk/images/extra/oricaugust.pdf
ORIC Newsletter September 2023	https://mnsuam.edu.pk/images/extra/ORICNewsletter-September2023.pdf
ORIC Newsletter October 2023	https://mnsuam.edu.pk/images/extra/ORICNewsletter-October2023.pdf
ORIC Newsletter November 2023	https://mnsuam.edu.pk/images/extra/ORICNewsletter-November01.pdf

University YouTube Channel	https://www.youtube.com/@prpmnsuam
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Newsletter Events 2023-24

Month	Event Title	Page No.
Newsletter: July 2023	7 th Mango festival MNSUAM	11
	First Annual thesis display 2023	13
	Inauguration of MNSUAM display corner	14
Link:	https://mnsuam.edu.pk/images/extra/JuneJulyNewsletter.pdf	
Newsletter: August 2023	Building skilled community	3
	Recruitment drive organized by CDC	7
	Recruitment drive for area training for Evyol groups of companies	8
	MOU between MNSUAM and MFRO	9
	Independence Day celebration	11
	Inauguration of solar energy system	12
	Punjab agriculture minister Mr. S.M Tanveer visit of MNSUAM	13
Link:	https://mnsuam.edu.pk/images/extra/augustfile.pdf	
Newsletter: September and October 2023	Plants Centric Meal Competition	3
	HEC intervarsity volleyball championship 2023	6
	Stakeholder conference about safe city project	8
	Interactive session with General Manager of SM food Mr Salahuddin	9
	Inauguration of fresco sensory lab	11
	World food day 2023	12
	World polio day seminar	13
	Black Day	14
	Club society's day	15
	Professional development accolades of faculty	16
Link:	https://mnsuam.edu.pk/images/sepoctnews_11zon.pdf	
Newsletter: November and December 2023	MNS University of Agriculture Multan celebrates the third convocation	3
	Capacity building workshop on soil sampling techniques and methodology	4
	Wheat productivity enhancement workshop at JPP farm	6
	Seminar on awareness about smog	7
	NAEAC's Delegation visited MNSUAM	9
	Food security OIC's Delegation visited MNSUAM	10
	International conference on artificial intelligence and emerging technologies	11
	Agriculture and food security venture spark business competition	12
	Seminar on 16 days of activism to end violence against women and girls	13
	Report on seminar regarding Palestine crisis	14
	World soil day 2023	15
	Winter sports gala 2023	17
	HEC post graduate program review team visited MNSUAM	18
	Seminar on the role of youth for the brighter future of Pakistan	19
Link:	https://mnsuam.edu.pk/images/Advertisements/2024/jan_24/Nov-Dec.pdf	
	Corn Cob Picker Machine and Drone spray demonstration	5
	Two days' workshop on implementation of HACCP in the food business	8

Newsletter: January and February	Seminar on risks of glacier lake outburst flood under climate change	9
Link:	https://mnsuam.edu.pk/images/Academics/Jan- Feb_News.pdf	
Newsletter: March and April 2024	Gibs pasta festival	3
	Spring flower festival 2024	4
	MOU between OGDCL and MNSUAM for miyawaki gardens	6
	One day workshop on emergence of CCHF in one health perspective	7
	World forest day celebration	9
	Interdepartmental debate competition	11
	Seminar on crime scene investigation fingerprinting and toxicology	12
	Seminar on Agriculture transformations in the Kazakhstan-China Borderlands at MNSUAM	13
	National conference on agriculture innovations for food security	14
	Baisakhi: celebrating the wheat harvest season	16
Link:	https://mnsuam.edu.pk/images/Reseaech/reports/2024/March_April_news.pdf	
Newsletter: May and June 2024	Visit of Agriculture Minister Punjab	3
	Awareness Session about Electric Vehicles	4
	South Punjab Library Festival	5
	Digital Literacy Seminar	7
	Seminar on the International Day of Living Together in Peace	9
	International Conference on Bee Pollination & Conservation 2024-MNSUAM	10
	International Day of Biological Diversity 2024	12
	Seminar on Aging Gracefully: Modern Management of Osteoporosis	14
	MOU between MNSUAM and Syngenta Pakistan	16
	Visit of Farmer Delegation from Balochistan	17
	Seminar on Spate Irrigated Agriculture	18
	World Environment Day Celebrations	20
	International Seminar World Food Safety Day	22
	Campus Activities - World Dengue Day	24
	Graduation Day 2024-Batch 2020-2024	26
Link:	https://mnsuam.edu.pk/images/download/May_june_compressed_1.pdf	