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# **News Bulletin**

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"Agriculture is our wisest pursuit, because it will in the end contribute most to real wealth, good morals & happiness" .

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## SDGs :

10: Reduced Inequalities



16: Peace, Justice and Strong Institutions



## Highlights

- Acknowledging the services of students and staff members from all sister religions.
- Assuring equal opportunities to pursue religious affairs and religious occasions at University in order to reduce inequalities.

## Focus Area

- The event aimed at inclusion, reducing inequalities to promote a thoroughly conducive social scenario.

## Christmas Day Seminar-MNSUAM

The “Young Students Peace Society” celebrated the New Year as Inter-Faith Harmony Festival on January 1st, 2024. The event acknowledged students and staff members from all religions for their services in the goodwill and recognition of university. Addressing the event, Prof. Dr. Asif Ali (T.I.), former Vice Chancellor MNSUAM assured all for equal opportunities of prayers and religious affairs at university in order to reduce inequalities and promote a thoroughly conducive social scenario. In this connection, Central Mosque of the University was declared as a common property that would focus the student-centered facility.



Students and staff from all religions were offered a lunch, followed by distribution of gift hampers. Prof. Dr. Hammad, Director QEC, Dr. Usman Jamshaid, Senior Tutor, Dr. Mirza Abdul Qayyum Hall Warden, Dr. Mirza Abid Mehmood DSA, Dr. Rasheed Ahmad and a large number of students shared the celebrations organized by Young Students Peace Society.

## SDGs :

1: No Poverty



2: Zero Hunger



3: Good Health and Well Being



15: Life on Land



## Highlights

- Comprehensive briefing about Farm's development over the years.
- Introduction of the newly hired faculty and staff to the historical development and ongoing research activities at Jalalpur Pirwala Experimental Farm.
- Visit to orchards of Guava, Jaman and Jajuba, Olive plantation, Maize Farm and Fish Farms.

## Focus Area

- Historical development of Jalalpur Peerwala Campus and Experimental Farm of MNSUAM
- Ongoing research activities
- Interdisciplinary research culture
- Interaction among newly hired faculty and staff
- A sense of pride for being part of a dynamic campus community
- Provision of ample opportunity to recuperate the energy levels with a knowledgeable tour.

## Key Take away

At MNSUAM, we believe that keeping our faculty and students blissful, progressive and knowledgeable is one of our chief responsibilities, therefore one of the pivotal reasons of the honour and international recognition enjoyed by MNSUAM is the inclusiveness, happiness, contentment and prodigiousness of its students, teachers and staff.

Prof. Dr. Ishtiaq Ahmad Rajwana

## MNSUAM's Faculty and administrative staff visited Jalalpur Pirwala Experimental Farm

In response to the initiative of the Vice Chancellor, Prof. Dr. Ishtiaq Ahmad Rajwana, faculty and administrative staff of MNSUAM visited the Jalalpur Pirwala Experimental Farm on January 31, 2024. The farm offers experimental area and research facilities to individual staff members, students and agency funded projects. The visit aimed to showcase historical development, ongoing research activities, promote interdisciplinary research culture, foster interaction among newly hired faculty and staff, inculcate a sense of pride for being part of a dynamic campus community and most importantly provide ample opportunity to recuperate the energy levels with a knowledgeable tour. Prof. Dr. Abdul Ghaffar, Director University Farms along with his team comprising of Mr. Rao Mahmood Alam, Mr. Abid Raza and others warmly welcomed the visitors. During his presentation, he gave a comprehensive overview of the developmental journey at Jalalpur Pirwala Farm and acknowledged the contribution of each and every one who directly and indirectly contributed towards the accomplishment of this great achievement. He expressed that development of this farm covering 500 acres was a difficult and challenging task owing to so many associated challenges; nevertheless, guidance and support from the University authorities, related offices, local and provincial governments and devoted untiring efforts of farm management team have miraculously transformed the landscape of this farm in just a short span of few years. Now, more than 400 acres are under cultivation and more will be available for crop production soon. He regarded the provision of fresh irrigation water and other basic Infrastructure as the major breakthrough. He urged the faculty and researchers to conduct research trials at this farm and promised them the unconditional support of his entire team. He further highlighted that the ten years strategic plan of University Farms Jalalpur Pirwala has not only been set but implementation has also commenced. Mr. Abid Raza, Farm Manager informed the visitors about various blocks and plantations there. About 42,000 plants of various tree species like gum Arabic, lebeck, Indian lilac, Indian beech tree, moringa, pomegranate, guava, jujube, fig etc. have been planted on roadside, alongside the water channels and in specific belts with higher level of salinity, which now are growing up and have started giving a greener look to the premises. About 14000 plants of Guava, Jaman and Jajuba have been planted on 25 acre land in collaboration with WWF.

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**15: Life on Land**



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Furthermore, successful adaptability trials for olive have also been done and 10 Acres of plantation under drip irrigation system is under progress. Fish farming is also ongoing. A project for construction of livestock shed, input and output stores and seed stores, farmers training halls and machinery shed has also been completed. The participants applauded the pace of developmental work and congratulated University Administration for organizing this event and prayed for further success. Flanked by Farm administration, they visited various blocks, sections and corners of the Farm and were briefed and guided accordingly. During field visit, thought provoking discussion was made and avenues for future collaboration were chalked out.



The guests also participated in various indoor and outdoor games and enjoyed themselves to the fullest. Afterwards, a funny question-answer session and open-mic laughter event was held. Prof. Dr. Ishtiaq Ahmad Rajwana, Vice Chancellor MNSUAM, appreciated the faculty and staff for organizing such a wonderful event and cherished all activities. The Vice Chancellor appreciated the efforts of Prof. Dr. Iqrar A. Khan (T.I., S.I., H.I.) and Prof. Dr. Asif Ali (T.I.) for their extra ordinary role in the development of Jalalpur Peerwala Campus. He also appreciated the efforts of Mr. Abdul Shakoor (Late) for the development of farm. He shared that one pivotal reason of the honour and international recognition enjoyed by MNSUAM is the inclusiveness, happiness and contentment of its students, teachers and staff as self-freedom and happiness is the basic right of every human being. At MNSUAM, we believe that keeping our faculty and students blissful is one of our chief responsibilities, as the epitome of happiness is that other people are at peace because of you. He motivated the faculty to keep in touch with Directorate of Farm Management and focus Jalalpur Pirwala Farm in their research and teaching interventions. He thanked to the team of Directorate of University Farms for their efforts and urged the continuation of such activities in future as well with same passion and energy.

## SDGs :

8: Decent work and Economic growth



9: Industry, Innovation & Infrastructure



12: Responsible Consumption & Production



## Highlights

- ▶ Demonstration of state-of-the-art corn cob picker, highlighting its cutting-edge features and capabilities.
- ▶ Demonstration of drone spray showcasing efficient dispersal of pesticides, fertilizers, and other chemicals over large agriculture areas with precision and accuracy.

## Focus Area

- ▶ The event aimed to introduce modern hi-tech technologies in agriculture and demonstrate the application and benefits of corn cob picker and drone spray.

## Key Take away

At MNSUAM, we realize the urgent need for integration of modern hi-tech technologies in agriculture to meet the challenges faced by the agricultural sector and to significantly improve efficiency, sustainability, and productivity, benefiting farmers and the nation's economy.

Dr. Abdul Ghaffar (Director Farms, MNSUAM)

## CORN COB PICKER MACHINE AND DRONE SPRAY DEMONSTRATION

The Directorate of University Farms organized a training workshop on Corn Cob Picker and Drone Spray. The demonstration was held on February 12, 2024 at University Farms Jalalpur Pirwala and was attended by students, faculty members and farmers. The event aimed to introduce modern hi-tech technologies in agriculture and demonstrate the application and benefits of corn cob picker and drone spray. Dr. Abdul Ghaffar, Director University Farms emphasized the urgent need for integration of modern hi-tech technologies in agriculture to meet the challenges faced by the agricultural sector. He highlighted how technological advancements could significantly improve efficiency, sustainability, and productivity, benefiting farmers and the nation's economy. The event began with the unveiling of the state-of-the-art corn cob picker, which was the outcome of the months of extensive research and collaboration between the University's agricultural experts and industry partners. The machine was showcased to the audience, highlighting its cutting-edge features and capabilities. A live demonstration of the corn cob picker was conducted to showcase its efficiency and effectiveness. The machine effortlessly picked corn cobs from the fields, impressing the farmers with its speed and precision. Dr. Abdul Ghaffar (Director Farms), Mr. Mahmood Alam Khan and Mr. Abid Raza (Deputy Director Farms) updated the farmers about the planting geometry of the crop to be sown and harvested with corn cob picker, its fuel consumption, field capacity and cob tank capacity. Furthermore, farmers were also informed that university has offered to use this machine at farmers' fields on no profit basis. This service to the community was highly appreciated by all the farmers.



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## CORN COB PICKER MACHINE AND DRONE SPRAY DEMONSTRATION

They also highlighted the revolutionary applications of drone spray technology in modern agriculture. They explained how drones with spraying equipment could efficiently disperse pesticides, fertilizers, and other chemicals over large agriculture areas with precision and accuracy. The benefits of drone spray included reduced chemical usage, minimized environmental impact, and increased crop yields. The practical demonstration of drone spray was performed, and audience was impressed with the potential of this technology to transform traditional farming practices.



## SDGs :

2: Zero hunger



3: Good Health and well being



9: Industry, innovation and infrastructure



12: Responsible consumption and production,



17: partnership for the goals



## Highlights

- ▶ Astute training sessions about comprehension and implementation of Hazard Analysis and Critical Control Points (HACCP) in the food industry.
- ▶ Practical insights into real-world HACCP implementation.

## Focus Area

- ▶ The two-day's training workshop titled "Implementation of HACCP in Food Business" aimed at equipping the attendees with the necessary tools and expertise for real-world HACCP implementation to ensure food safety in their respective businesses.

## Key Take away

HACCP implementation is a vital step towards ensuring food safety and encouraging success in our academic community.

Prof. Dr. Ishtiaq Rajwana

## Two Days Workshop on "Implementation of HACCP in Food Business"-MNSUAM

A two-day's training workshop titled "Implementation of HACCP in Food Business" was organized by Department of Food Science and Technology Muhammad Nawaz Shareef University of Agriculture, Multan on 13-14th February 2024 to maximize the professional capacity among the youth. Gracing the event Prof. Dr. Ishtiaq Rajwana, Vice Chancellor MNSUAM, encouraged the youth to highlight their personal potential to succeed in all fields of life. He further highlighted that HACCP implementation is a vital step towards ensuring food safety and encouraging success in our academic community. Mr. Muhammad Ali Shahzaib, Quality and Food Safety Professional Metro, Pakistan facilitated the workshop, delivering insightful training sessions aimed at enhancing understanding and implementation of Hazard Analysis and Critical Control Points (HACCP) in the food industry. On the second day, participants had the unique opportunity to apply their newly acquired knowledge during a visit to Metro Multan, gaining practical insights into real-world HACCP implementation.



The workshop successfully equipped attendees with the necessary tools and expertise to ensure food safety in their respective businesses. The session witnessed participation of 200 students from Department of Food Science and Technology participated in this session. Prof. Dr. Umar Farooq, Dr. M. Shahbaz, Dr. Nida Firdous, Dr. Shabbir Ahmad, Dr. Sibte Abbas, Dr. Nighat Raza and other faculty members participated in the event. Certificates were distributed among students at the end of this session.



## 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 (Psf/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.

## SDGs :

09: Industry, Innovation, and Infrastructure



13: Climate Action



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## Seminar on Risks of Glacier Lake Outburst Flood under Climate Change (Psf/Crp-Consrm -488)-MNSUAM



The parameters that can be determined by using GIS and RMS technologies include extent, area, topography, thickness, volume, velocity, as well as surface reflectance, temperature, melt extent glacier zonation (facies) and mass balance. Glaciers, along with oceans, lakes, and rivers, are part of the hydrosphere and an indicator of Climate Change. The principal investigator of the project, Dr. Muhammad Saifullah Assistant Prof. Department of Agricultural Engineering, MNSUAM, acknowledged Pakistan Science Foundation for providing the funds to estimate the hazardous impact of climate change. He shared the brainstorming thoughts about the findings of the project. He elaborated that glaciers, along with oceans, lakes, and rivers, are part of the hydrosphere and an indicator of Climate Change. Potentially dangerous glaciers' lakes formation and their factors should be considered during the glaciers lake inventory database. GIS and RMS technologies can assist a lot in data interpolation, data visualization and mapping of different remote areas. The depth, volume, and area of the glacier's lakes can be estimated using various GIS and RMS tools, which were also highlighted for their applications in field water resources and agriculture during the seminar. Dr. Alamgir A. Khan, Coordinator FABSET, MNSUAM highlighted the impact of climate change on cryosphere. He emphasized that water scarcity is a rising challenge in Pakistan. Principal investigator of the Project, Dr. Muhammad Saifullah extended a vote of thanks to all participants and Pakistan Science Foundation.