



Sustainability Report 2022-23

PUBLISHED BY:

**OFFICE OF RESEARCH INNOVATION AND
COMMERCIALIZATION (ORIC)**

MNS University of Agriculture Multan, Pakistan

TABLE OF CONTENTS

• EXECUTIVE SUMMARY	2
• INTRODUCTION	4
• VISION & MISSION	5
• CONCEPT OF SUSTAINABILITY	6
• SUSTAINABLE CAMPUS INFRASTRUCTURE	7
• SUSTAINABLE ENERGY & CLIMATE DYNAMICS	36
• WASTE MANAGEMENT	50
• WATER RESILIENT FUTURE	67
• ECO-FRIENDLY TRANSPORTATION	79
• EDUCATION & RESEARCH ADVANCING TOGETHER	87
• ADDITIONAL LINKS	116

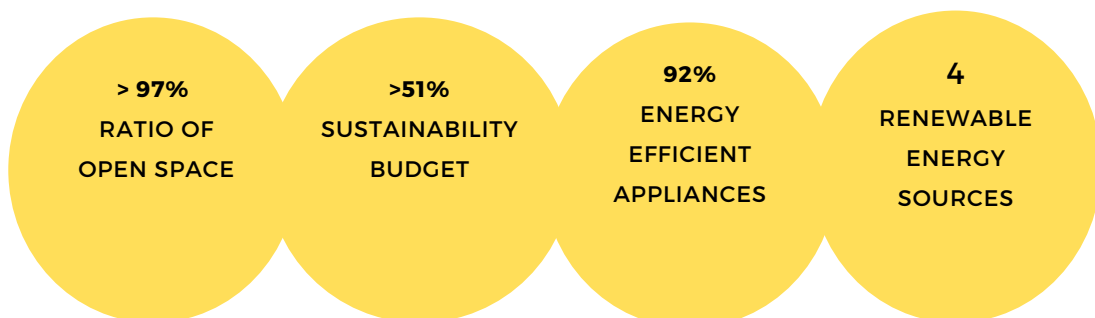
EXECUTIVE SUMMARY

In the Academic year 2022-23, we proudly report a campus environment characterized by a remarkable dedication to sustainability and inclusivity. With over 97% 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 51% 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 170 kWh/person, and our total energy production from renewable resources is 18.41% higher than our total energy consumption. 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 0.15 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.

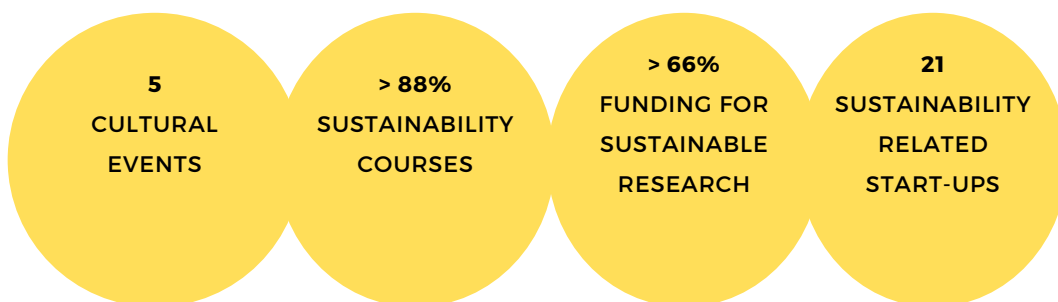
Additionally, we have made significant efforts in water conservation, Over 60% of water conservation programs successfully implemented, Our commitment extends to installing over 70% of water-efficient appliances campus-wide, Lastly, our comprehensive water pollution control policy and programs are not only fully implemented but are also subject to regular monitoring, exemplifying our unwavering dedication to safeguarding the environment within our campus and beyond.



EXECUTIVE SUMMARY

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 66% and a substantial 232 scholarly publications (Average Per annum) on sustainability. Our vibrant campus culture actively fosters sustainability through over 60 sustainability-related events and more than 30 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 five cultural events in each academic year. With more than ten international collaborations in our sustainability programs and we proudly engage on a global scale. Additionally, we have done more than five 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

The Muhammad Nawaz Sharif University of Agriculture Multan (MNS-UAM) stands as a beacon of educational excellence and agricultural innovation in the heart of Southern Punjab, Pakistan. Established in 2012, this institution has rapidly emerged as a hub for cutting-edge research, rigorous academic pursuits, and holistic development, contributing significantly to the region's agricultural advancement and intellectual growth. Nestled on the historic Old Shujabad Road, Multan, MNS-UAM encompasses a sprawling campus spanning over 680 acres across two strategic locations. One of these locations, covering an expansive 180 acres in Mouza Rangeel Pur on Old Shujabad Road, symbolizes the university's commitment to providing students with ample space to explore, learn, and engage in hands-on agricultural experiences.

At the core of MNS-UAM's academic pursuit lies a strong emphasis on sustainability and food security. As the world grapples with pressing environmental concerns and a growing global population, the university is dedicated to producing graduates who possess the knowledge and acumen to address these challenges head-on. Through innovative research endeavors and educational initiatives, MNS-UAM contributes to the preservation of the environment while striving to ensure a stable food supply for the region and beyond.





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 (MNS-UAM) is deeply committed to elevating the well-being and resilience of our campus community. Our overarching objective is to foster health-conscious behaviors, minimize energy consumption, and reduce the generation of hazardous materials, environmental toxins, and inorganic waste within our campus premises. We expect our esteemed faculty, dedicated staff, and diligent students to actively integrate these sustainable practices into their daily routines. This collective effort is integral to our mission to promote environmental stewardship and sustainable living on our campus. To make our university condition well-disposed we have structured after maintainability strategies:

- Sustainable campus infrastructure.
- Sustainable Energy & Climate Dynamics.
- Water Resilient Future.
- Waste Management.
- Eco-friendly Transportation.
- Education & Research Advancing Together.



SUSTAINABLE CAMPUS INFRASTRUCTURE



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



14 LIFE
BELOW WATER



15 LIFE
ON LAND



17 PARTNERSHIPS
FOR THE GOALS



SUMMARY

Our campus environment characterized by a remarkable dedication to sustainability and inclusivity. With over 97% 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 51% 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.



ACADEMIC BLOCK

The Academic Block at Muhammad Nawaz Shareef University of Agriculture in Multan stands as a symbol of knowledge, innovation, and academic excellence. With its state-of-the-art facilities, modern classrooms, and dedicated faculty,



ACADEMIC BLOCK



CAMPUS SETTING

SETTING & INFRASTRUCTURE

A BLOCK

- Building in Block A (Vice Chancellor Residence).
- Building in Block A (Girls Hostel).
- Building in Block A (Academic Block)..
- Building in Block A (Staff Colony)



B BLOCK

- Building in Block B (Academic Block)
- Building in Block B (Boys Hostel)
- Building in Block B (Administration Block)
- Building in Block B (Faculty Residence)
- Building in Block B Central Library.



TOTAL CAMPUS AREA / GREEN VEGETATION AREA



TOTAL CAMPUS AREA (728,434 SQUARE METRE)



TOTAL AREA WITH GREEN VEGETATION (263,048 SQUARE METRE)

TOTAL CAMPUS BUILDINGS AREA



BUILDING IN BLOCK A (GIRLS HOSTEL) 5,825 SQUARE METRE



BUILDING IN BLOCK A (ACADEMIC BLOCK) 5,017 SQUARE METRE



BUILDING IN BLOCK A (STAFF COLONY) 1928 SQUARE METRE

TOTAL CAMPUS BUILDINGS AREA



BUILDING IN BLOCK A (VICE CHANCELLOR RESIDENCE) 395 SQUARE METRE



BUILDING IN BLOCK B (ACADEMIC BLOCK) 18335 SQUARE METRE



BUILDING IN BLOCK B (ADMINISTRATION BLOCK) 3749 SQUARE METRE

TOTAL CAMPUS BUILDINGS AREA



BUILDING IN BLOCK B (BOYS HOSTEL) 5,825 SQUARE METERS



BUILDING IN BLOCK B (FACULTY HOSTEL) 611 SQUARE METERS



BUILDING IN BLOCK B CENTRAL LIBRARY

TOTAL CAMPUS OPEN SPACE



RATIO OF OPEN SPACE (BLOCK A)



RATIO OF OPEN SPACE (BLOCK B)



RATIO OF OPEN SPACE (BLOCK C)

TOTAL OPEN SPACE IN CAMPUS (97.49%)

TOTAL AREA ON CAMPUS COVERED UNDER VEGETATION



TOTAL AREA COVERED IN PLANTED VEGETATION: (45%)

TOTAL CAMPUS AREA FOR WATER ABSORPTION BESIDES VEGETATION



LAWNS INSIDE THE BUILDING (POST GRADUATE BLOCK)



CONCRETE BLOCKS AND LAWN AREA (POST GRADUATE BLOCK)



LAWN AREA (ACADEMIC BLOCK)

TOTAL WATER ABSORPTION AREA: (35%)

TOTAL CAMPUS AREA FOR WATER ABSORPTION BESIDES VEGETATION



GREEN BELTS (OVERALL ROAD SIDES)



LAWN AREA (ADMIN BLOCK)



GREEN BELTS (ADMIN BLOCK)

BUDGET FOR SUSTAINABILITY EFFORTS

MNSUAM demonstrates a strong commitment to sustainability, with an impressive average allocation of 51.62% of its budget dedicated to sustainability efforts.



OPERATION AND MAINTENANCE ACTIVITIES



LAWN MAINTAINENCE (ADMIN BLOCK)



RENOVATION OF UNIVERSITY MAIN ENTRANCE GATE



REPAINTING OF PARKING SIGNS

OPERATION AND MAINTENANCE ACTIVITIES



CONCRETE BLOCKS PAVED AT POSTGRADUATE BLOCK (BEFORE)



CONCRETE BLOCKS PAVED AT POSTGRADUATE BLOCK (AFTER)



DOOR MAINTENANCE

CAMPUS FACILITIES FOR DISABLE, SPECIAL NEEDS AND OR MATERNITY CARE



WHEELCHAIR RAMPS



ACCESSIBLE TOILET



ELEVATOR INSTALLED

SECURITY AND SAFETY FACILITIES



CCTV CAMERA'S



VIDEO SURVILANCE ROOM



HEIGHTENED SECURITY CHECK POSTS

SECURITY AND SAFETY FACILITIES

MNS University of Agriculture Multan has implemented a range of security and safety measures on its campus. These measures are crucial for ensuring the well-being of students, staff, and visitors.

SECURITY AND SAFETY FACILITIES



WALK THROUGH SECURITY GATES



FIRE EXTINGUISHERS AND FIRE BUCKETS



FIRE-HYDRANT



WATER BOOZERS:

SECURITY AND SAFETY FACILITIES



ROAD SAFETY SEMINAR ORGANIZED IN COLLABORATION WITH HIGHWAY AND MOTORWAYS POLICE



EMERGENCY CONTACT INFORMATION:

COMPREHENSIVE HEALTH INFRASTRUCTURE FOR CAMPUS WELL-BEING



HEALTH FACILITIES FOR STUDENTS AND STAFF IN MNSUAM

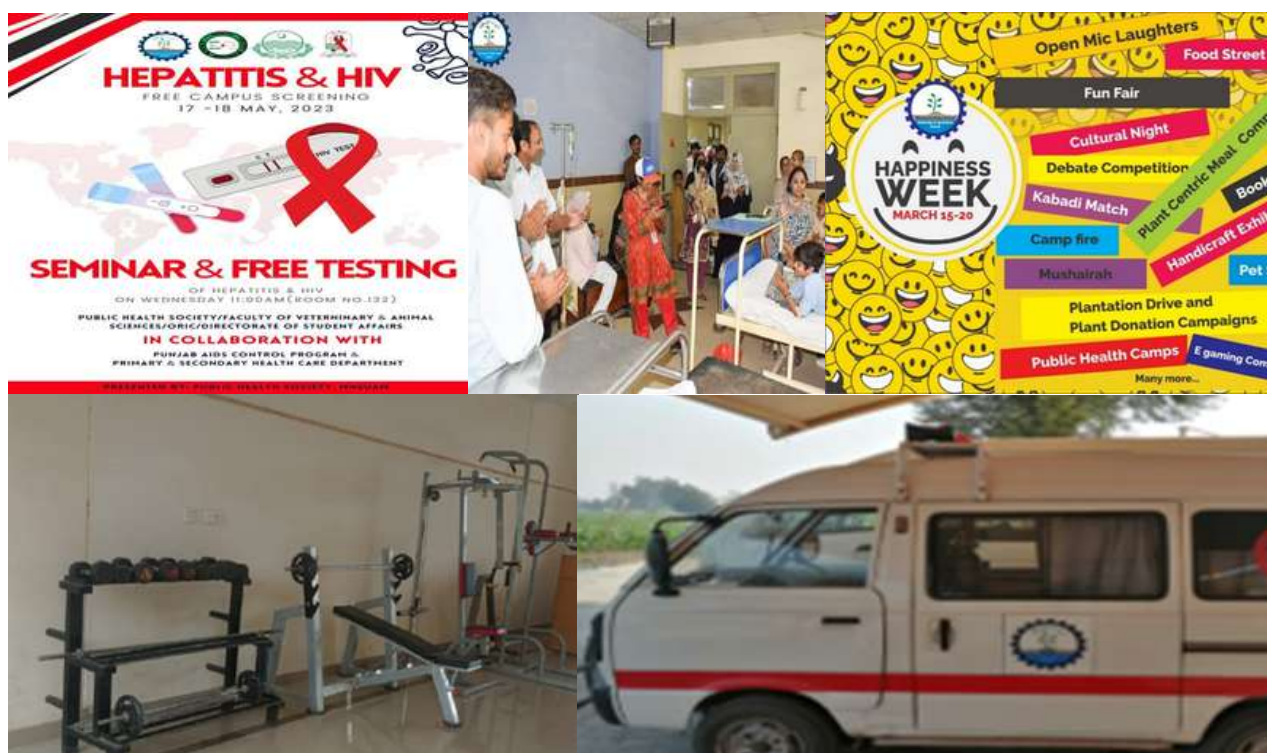
UNIVERSITY WELLNESS CENTRE:

MNS University of Agriculture Multan places a strong emphasis on the health and well-being of its students, academics, and administrative staff. To ensure comprehensive health infrastructure, the university has established a range of facilities and services that cater to various aspects of well-being.

MNSUAM STUDENT SOCIETIES' PUBLIC HEALTH AWARENESS PROGRAMS



PUBLIC HEALTH SOCIETY INITIATIVES AND ACTIVITIES



PUBLIC HEALTH SOCIETY INITIATIVES AND ACTIVITIES:

The University's Public Health Society is dedicated to advancing public health through a range of initiatives and activities. These efforts encompass health awareness campaigns, educational seminars, community outreach programs, and collaborations with local healthcare organizations.

MNSUAM STUDENT SOCIETIES' PUBLIC HEALTH AWARENESS PROGRAMS



BLOOD DONATION FOR THALASSEMIA PATIENTS- ORGANIZED BY BLOOD DONATION SOCIETY AND SOCIETY OF PUBLIC HEALTH



Observing Breast Cancer Day - Organized by Society of Public Health

SUSTAINING GLOBAL NUTRITION: WORLD FOOD DAY



CELEBRATING WORLD FOOD DAY - ORGANIZED BY SOCIETY OF PUBLIC HEALTH IN COLLABORATION WITH DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

WILDLIFE CONSERVATION DAY AND PLANTATION DRIVE: A DUAL CELEBRATION



OBSERVING WILDLIFE CONSERVATION DAY - ORGANIZED BY VETERINARY CLUB IN COLLABORATION WITH FACULTY OF FVAS



Plantation Drive - Organized by Green Youth Movement Club

GROWING SUSTAINABILITY: KITCHEN GARDENING AND SAVE FORESTRY CAMPAIGN



MODEL DEMONSTRATION: KITCHEN GARDENING



SAVE FORESTRY CAMPAIGN

CLIMATE CHANGE AWARENESS AND GROUNDWATER RESOURCE REPLENISHMENT INITIATIVES



CLIMATE CHANGE AWARENESS SESSION IN COLLABORATION WITH GREEN GOWN NETWORK - ORGANIZED BY GREEN YOUTH MOVEMENT



MONSOON PLANTATION-THROUGH SEED BALLS TECHNIQUE

CONSERVATION: PLANT, ANIMAL, AND WILDLIFE, GENETIC RESOURCES FOR FOOD AND AGRICULTURE SECURED IN EITHER MEDIUM OR LONG-TERM CONSERVATION FACILITIES



WILDLIFE CONSERVATION DEMONSTRATION

WILDLIFE CONSERVATION AWARENESS:

Wildlife Conservation Awareness Session and demonstration session is organized by Plant for Life Society, and this is a great opportunity to raise awareness and inspire action among students and the community.

- Water pond for Fish conservation area
- Miyawaki Urban Forest is a dedicated area for wildlife species.
- Water Conservation for natural forestry and wildlife
- Wildlife Species: Sparrows, rock pigeon rock dove, hummingbirds, honeybee etc.

CONSERVATION: PLANT, ANIMAL, AND WILDLIFE, GENETIC RESOURCES FOR FOOD AND AGRICULTURE SECURED IN EITHER MEDIUM OR LONG-TERM CONSERVATION FACILITIES



FISHPOND AQUA-CULTURE



MIYAWAKI URBAN FOREST



ANIMAL SHED

CONSERVATION: PLANT, ANIMAL, AND WILDLIFE, GENETIC RESOURCES FOR FOOD AND AGRICULTURE SECURED IN EITHER MEDIUM OR LONG-TERM CONSERVATION FACILITIES



HYDROPONICS UNIT



FISH FARMING

Above are the examples of Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities.

Sustainable Energy & Climate Dynamics



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS



SUMMARY

MNSUAM's 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 170 kWh/person, and our total energy production from renewable resources is 18.41% higher than our total energy consumption. 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 0.15 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.



ENERGY EFFICIENT APPLIANCES

MNSUAM, as an institution dedicated to fostering green energy technology, knowledge, innovation, and progress. Our commitment is exemplified by our impressive 500 kW solar system, Solar operated dryer, Irrigation system, wind power Hydro power and biogas systems as farm energy source. Moreover, 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. The campus roads, corridors and lawns are illuminated with LED lights. Overall appliances (led bulbs, AC, ceiling fans etc.) are energy efficient.

Appliances	Total Number	Total number energy Efficient appliances	Percentage
LED Bulbs	3852	3204	83%
Ceiling Fans	1552	1189	76%
Air Conditioners	112	101 (Dc Inverter)	90%
Road Lights (90 Watt SMD)	98	98	100
LCD's	23	23	100%
Energy Star Certified Computers	267	267	100%
IT Servers	4	4	100%
		Average Percentage	92%

ENERGY EFFICIENT APPLIANCES USAGE



SMART BUILDING IMPLEMENTATION

At MNS University of Agriculture Multan, we are supporting green energy technologies to combat climate change for a sustainable environment. At the MNS University of Agriculture in Multan, the implementation of smart building technology is poised to revolutionize the campus infrastructure, enhancing both the student experience and the institution's operational efficiency. These intelligent systems incorporate automation, making it easier for university staff to manage facilities and resources seamlessly. Safety is a top priority, with advanced physical security measures, presence sensors, and CCTV surveillance systems ensuring the well-being of students and faculty. Energy and water efficiency are also paramount, contributing to sustainability goals and reducing environmental impact. Innovative lighting systems, including energy-efficient illumination and low-power lighting, not only conserve resources but also create conducive study environments. Ventilation and security systems are integrated to maximize operational efficiency, while robust fire prevention measures offer a high level of safety assurance. In the context of MNS University of Agriculture Multan, the adoption of smart building technology represents a forward-looking approach to campus development, ultimately enhancing the overall educational experience and sustainability efforts.

On campus renewable energy resources include solar photovoltaic, solar thermal systems, biogas, biomass utilization, wind energy, and hydroelectric power, Solar photovoltaic System 500 KW on grid PV system, Solar PV off grid : 14 kW installed, Solar Thermal: 6.7 kW , Biogas Plant: 20 m³ day⁻¹ or 365 Kwh per year, Wind model: 0.1kW, Hydro model:0.2kW.



SOLAR POWER SYSTEM 500KW IN ACADEMIC BLOCK, MNSUAM

SMART BUILDING IMPLEMENTATION



SOLAR SYSTEM FOR IRRIGATION IN C-BLOCK



A SOLAR DESICCANT CABINET DRYER FOR FRUITS



SOLAR SYSTEM-BASED LABS IN A-BLOCK



SOLAR DESICCANT DRYER FOR GRAINS

NUMBER OF RENEWABLE ENERGY SOURCES ON CAMPUS



HYDRO POWER SYSTEM



BIOGAS PLANT



WINDMILL SYSTEM

ELECTRICITY USAGE PER YEAR (IN KILOWATT HOUR)

MNS University of Agriculture Multan Pakistan is following the Academic year's reporting pattern which starts from 1st of July and ends on 30th June.

Total Energy Consumption from (1st July 2022 to 30th June 2023) = 96,3120 kWh



963120KWH

TOTAL CARBON FOOTPRINT (LAST 12 MONTHS, IN METRIC TONS)

The University of Agriculture Multan, founded in 2012, has a small student population, and it will take some time to increase its enrollment. Therefore, considering the university's population, there is a minimal carbon footprint.

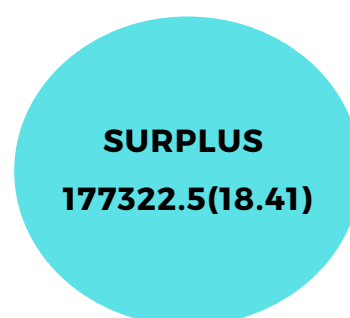
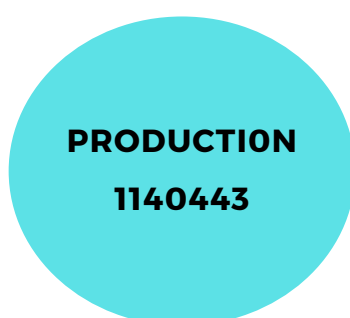
Total Carbon Footprint in 2022-23 is 852.78 metric tons



**852.78
METRIC TONS**

PROPORTION OF RENEWABLE ENERGY TO THE TOTAL ENERGY USED ANNUALLY

SR No	Renewable Energy	Production (in kWh)
1	Installation of 500 kW on grid PV system (500x6x365)	1095000
	PV system for irrigation (5x6x365)	10950
	PV system for entomology lab (9x6x365)	19710
2	Biogas Plant	20 m ³ day ⁻¹ or 365 Kwh
3	Solar Thermal: (6.7x5x365)	6.7 kW or 12227.5
4	Windmill (0.1x20x365)	730
5	Hydro wheel (0.2x20x365)	1460
	Total Production Capacity	1,140,443



ELEMENTS OF GREEN BUILDING IMPLEMENTATION

All the newly constructed buildings in MNS University of Agriculture, Multan have proper vents. 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.



POST-GRADUATE BLOCK

NATURAL DAY LIGHT & VENTILATION SYSTEM IN ALL BUILDINGS



GIRLS'S HOSTEL (OUTSIDE)



GIRLS'S HOSTEL (INSIDE)



BOY'S HOSTEL (OUTSIDE)



BOY'S HOSTEL (INSIDE)

NATURAL DAY LIGHT & VENTILATION SYSTEM IN ALL BUILDINGS



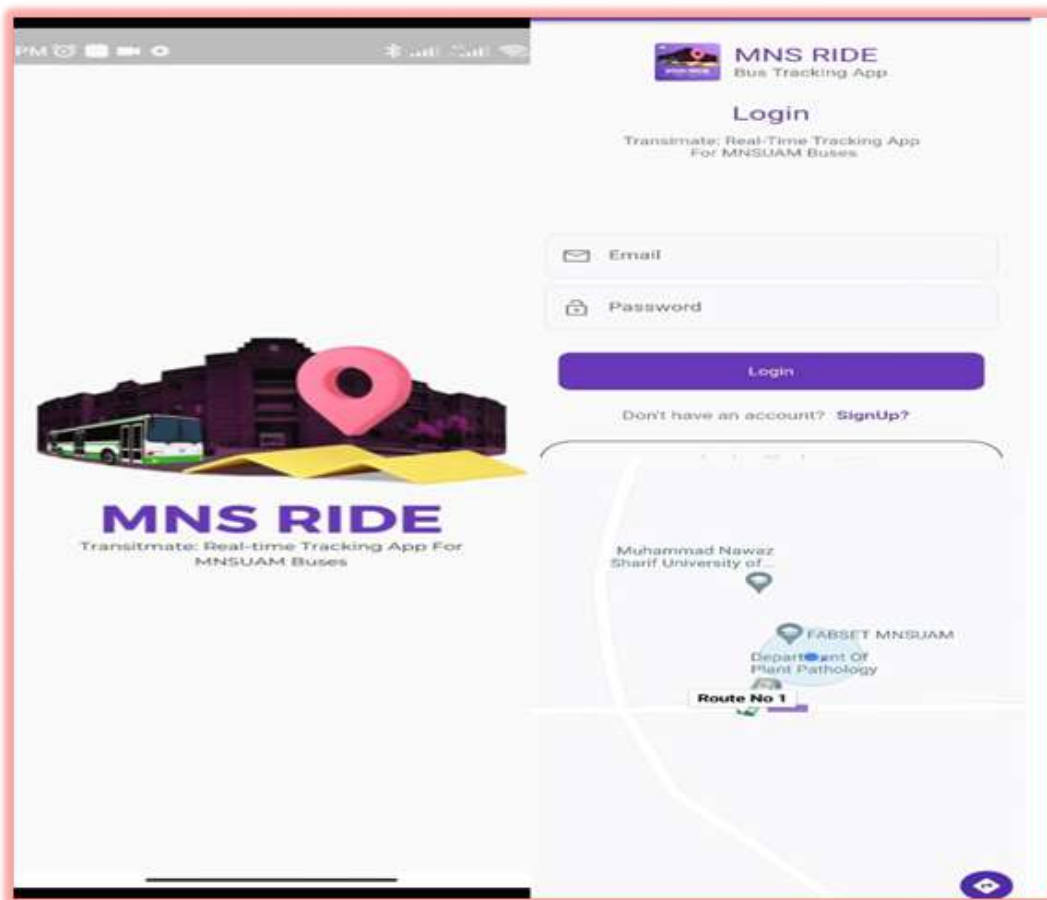
ADMINISTRATION BLOCK & GUEST HOUSE



VENTILATION SYSTEM IN ACADEMIC BLOCK

STRATEGIES FOR EMISSION REDUCTION

- The MNS-University of Agriculture Multan implements several eco-friendly measures on its campus:
- Charging for private vehicle parking to decrease the number of vehicles on campus.
- Promoting ride sharing to encourage sustainable transportation choices among commuters.
- Utilizing solar energy to reduce reliance on purchased electricity.



BUS TRACKING APPLICATIONS AT MNSUAM

RIDE SHARING APPLICATION

The introduction of ride-sharing and bus tracking applications at MNSUAM, represents a significant leap in campus transportation and convenience for students, faculty, and staff.

STRATEGIES FOR EMISSION REDUCTION

CHARGE FOR PARKING

Implementing a charge for parking is a practical approach that many institutions and urban areas adopt to manage limited parking resources effectively. By charging for parking, it can also incentivize alternative transportation methods like carpooling, public transit, or cycling.



MUHAMMAD NAWAZ
SHAREEF UNIVERSITY OF
AGRICULTURE, MULTAN

P
PARKING

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.

RENEWABLE SOLAR ENERGY

The integration of renewable solar energy at MNSUAM (Mian Nawaz Sharif University of Agriculture, Multan) represents a forward-thinking approach to sustainable campus operations. Solar panels, strategically installed across the university, harness the abundant sunlight in the region to generate clean and renewable electricity.



Waste Management



3 GOOD HEALTH AND WELL-BEING



8 DECENT WORK AND ECONOMIC GROWTH



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



14 LIFE BELOW WATER



15 LIFE ON LAND



17 PARTNERSHIPS FOR THE GOALS




SUMMARY

MNSUAM has 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.



EMBRACING THE 3R PROGRAM: REDUCE, REUSE, RECYCLE FOR SUSTAINABLE PRACTICES

The development of an effective solid waste management system at the campus of MNS University of Agriculture in Multan has been a vital initiative aimed at promoting sustainability and environmental responsibility. This system was established with the primary purpose of efficiently managing and disposing of waste generated within the university premises. By implementing a comprehensive waste management strategy, the university seeks to minimize its ecological footprint, protect the local environment. Notification Attached.....



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. Alangir 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 Convener • Dr. Mudassar Ali Member • Farm Manager Member • Dr. 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 Convener • Estate Care Nominee Member • Dr. 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's • Estate Care will provide labor for the sorting of waste

01 of 02



NOTIFICATION TO ESTABLISHED EFFECTIVE WASTE MANAGEMENT SYSTEM

EMBRACING THE 3R PROGRAM: REDUCE, REUSE, RECYCLE FOR SUSTAINABLE PRACTICES

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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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

PAPER USAGE GUIDELINES: PROMOTING SUSTAINABILITY AND CONSERVATION

- Wipe out duplication of reports i.e. on the web and printed duplicates While printing.
- utilize the two sides of the paper wherever conceivable Utilize the rear of the papers with one side printing.
- Acknowledge, online correspondence through email.
- Utilize interactive presentations through media projectors.
- Limit the utilization of dispensable paper items, Reuse paper envelopes
- Keep littler paper chits for composing short messages or other material
- Utilize email for correspondence to lessen printing
- Make correct number of duplicates for examinations and gatherings to keep away from wastage of paper. Notification Attached.....




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

PROMOTING PLASTIC-FREE PRACTICES: A CALL TO REFUSE PLASTIC ITEMS

- **Minimize Plastic Printing Consumables:** Reduce the use of plastic ink cartridges and toner cartridges.
- **Promote Digital Alternatives:** Encourage the adoption of digital platforms and electronic documents.
- **Reusable Envelopes:** Implement a system, for reusing paper envelopes instead of plastic ones for internal mail and communications.
- **Email Communication:** Promote Email use as the primary mode of communication to reduce the need for printed memos, notifications, and letters.
- **Multi-Page Documents:** Encourage the creation of multi-page documents.
- **Eliminate Duplication:** Implement measures to prevent the duplication of reports.
- **Interactive Media:** Utilize media projectors and digital presentations to replace printed materials like posters and handouts for events and meetings.
- **Reduce Disposable Paper Products:** Minimize the use of disposable paper products, such as plastic-coated cups and plates, by promoting reusable alternatives.
- **Educational Initiatives:** Raise awareness and educate staff and students about the importance of reducing plastic waste and the benefits of sustainable printing practices.

Campaign in campus to reduce the Plastic use



CAMPAIGN BEAT PLASTIC POLLUTION

WASTE MANAGEMENT POLICY: A COMMITMENT TO ENVIRONMENTAL RESPONSIBILITY





Dr. Shakeel Ahmad



MNS-University of Agriculture, Multan-Pakistan

WASTE RECYCLING AGREEMENT: SUSTAINABLE RESOURCE MANAGEMENT

WASTE RECYCLING AGREEMENT

This Waste Recycling and treatment Agreement is entered into on June 16th, 2022, by and between

MNS University of Agriculture Multan, a higher education institution, hereinafter referred to as the "Waste Producer" or "University," with its principal office located at Old Shujabad road Multan, hereinafter referred to as the "Waste Producer Representative."

AND

Trash Managers, a waste recycling business startup registered at MNS University of Agriculture Multan, hereinafter referred to as the "Waste Manager" or "Trash Managers," with its principal office located at [BIAEC Enclave MNSUAM, old Shujabad Road Multan], hereinafter referred to as the "Waste Manager Representative."

The Waste Producer and the Waste Manager are collectively referred to as the "Parties" and individually as a "Party."

RECITALS

WHEREAS the Waste Producer generates and accumulates certain types of waste materials because of its operations, which may include, but are not limited to, paper, cardboard, plastics, glass, and other recyclable materials (the "Waste Materials");

WHEREAS, Trash Managers has developed the expertise and infrastructure to recycle and treat such Waste Materials in an environmentally responsible manner.



WHEREAS the Parties desire to enter into an agreement to establish the terms and conditions under which Trash Managers will collect, recycle, and treat the Waste Materials generated by the Waste Producer.

NOW, THEREFORE, in consideration of the promises and covenants contained herein, the Parties agree as follows:

1. SERVICES

1.1 **Waste Collection:** Producer will provide space for Waste Management Site and will deliver the waste to site. Manager will be responsible for segregation and recycling.

Page 1 of 3

1.2 **Recycling and Treatment:** Trash Managers shall recycle and treat the Waste Materials, in accordance with applicable environmental regulations, industry best practices, and sustainability standards.

1.3 **Reporting:** Trash Managers shall provide the Waste Producer with periodic reports detailing the quantities and types of Waste Materials collected, recycled, and treated.

2. PRICE AND PAYMENT

2.1 **Price:** The Parties agree that the price for the Waste Management shall be [Agreed-upon Price] per [Unit] as described in Exhibit A.

2.2 **Payment Terms:** Payment shall be made by the Producer to the Manager within [Agreed-upon Payment Terms] from the date of delivery of the Materials. Exhibit A.

3. DURATION

3.1 **Term:** This Agreement shall commence on June 16th, 2022, and continue in force until terminated by either Party in accordance with the terms set forth herein.

4. TERMINATION

4.1 **Termination for Convenience:** Either Party may terminate this Agreement for convenience upon [Notice Period] written notice to the other Party.



4.2 **Termination for Cause:** Either Party may terminate this Agreement immediately upon written notice to the other Party if the other Party breaches any material provision of this Agreement and fails to remedy such breach within [30] days.

4.3 **Termination by Producer:** If the Manager would not recycle the recyclable waste, the Producer has right to terminate the agreement. The Producer has the intention to recycle the waste for the environmental sustainability.

5. CONFIDENTIALITY

5.1 **Confidential Information:** The Parties shall treat all non-public information obtained during this Agreement as confidential and shall not disclose such information to third parties without the express written consent of the disclosing Party.

Page 2 of 3

6. GOVERNING LAW

6.1 **Governing Law:** This Agreement shall be governed by and construed in accordance with the laws of [Jurisdiction].

7. ENTIRE AGREEMENT

7.1 **Entire Agreement:** This Agreement constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes all prior understandings, agreements, or representations.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the Effective Date.

<p>Trash Managers</p> <p>Name: <u>Ameer Ahmad</u></p> <p>Designation: <u>vice president</u></p> <p>Signature: <u>[Signature]</u></p> <p>Date: <u>16-06-2022</u></p>	<p>Witness 1</p> <p>Name: <u>Dr. Shakeel Ahmad</u></p> <p>Designation: <u>Assistant professor</u></p> <p>Signature: <u>[Signature]</u></p> <p>Date: <u>16-06-2022</u></p>
<p>Director ORIC, MNSUAM</p> <p>Name: <u>Prof Dr. Junaid Ali Khan</u></p> <p>Designation: <u>Director ORIC</u></p> <p>Signature: <u>[Signature]</u></p> <p>Date: <u>16-06-2022</u></p>	<p>Witness 2</p> <p>Name: <u>M. Zeeshan</u></p> <p>Designation: <u>Research Officer</u></p> <p>Signature: <u>[Signature]</u></p> <p>Date: <u>16/06/2022</u></p>

Page 3 of 3

WASTE COLLECTION SYSTEM

The Waste Collection System at MNS University of Agriculture, Multan, is a well-organized and efficient initiative designed to ensure the proper disposal of waste generated within the campus. With strategically placed waste bins and collection points, our system encourages responsible waste disposal among students, faculty, and staff. Regularly scheduled collections ensure that waste is promptly and appropriately managed. Moreover, the system incorporates waste segregation practices, distinguishing between recyclable and non-recyclable materials, thus contributing to our commitment to environmental sustainability. The university's Waste Collection System not only maintains a clean and hygienic campus but also reflects our dedication to fostering a culture of environmental awareness and responsibility among the university community.



DIRECTIONS FOR WASTE MANAGEMENT



WASTE COLLECTION BINS

WASTE MANAGEMENT SYSTEM

At MNS University of Agriculture, Multan, we've taken significant strides towards sustainable waste management with the establishment of a dedicated Waste Management System. Notably, our approach towards organic waste is environmentally conscious and innovative. We've harnessed its potential to benefit our ecosystem. Through a meticulous process, organic waste is transformed into two valuable products: compost and biochar.

- Compost enriches our soil health, providing essential nutrients and enhancing its fertility while
- biochar acts as a natural soil conditioner, improving water retention and promoting a healthier, more resilient environment.

This holistic waste management approach underscores our commitment to sustainability, promoting both a greener campus and a more eco-conscious community.



WASTE MANAGEMENT SITE

WASTE MANAGEMENT SYSTEM (COMPOSTING)

The purpose of composting at MNS University of Agriculture, Multan, is multi-faceted and aligns with our commitment to sustainable and environmentally responsible practices. Composting serves several important objectives within the university:

- Enhancing Soil Health
- Waste Diversion
- Educational Tool
- Promoting Sustainability



WASTE MANAGEMENT SYSTEM

The purpose of biochar utilization at MNS University of Agriculture, Multan, encompasses several important objectives, all geared toward promoting sustainability and enhancing our agricultural and environmental practices: Soil Improvement, Carbon Sequestration, Waste Utilization, Research and Innovation, Sustainable Agriculture.



- In line with our commitment to sustainability, our university actively engages in vermicomposting, a green initiative for enriching our campus environment. Through this eco-conscious approach, we are not only reducing organic waste but also cultivating nutrient-rich compost to enhance our gardens.



OBSERVING WORLD ENVIRONMENT DAY

World Environment Day at MNS University of Agriculture, Multan, is a momentous occasion where our institution comes together to reaffirm our commitment to environmental stewardship and sustainability. This day serves as a platform for raising awareness about pressing environmental issues, fostering a sense of responsibility towards our planet, and inspiring positive actions within our university community. Activities and events such as tree planting drives, eco-friendly workshops, and seminars on environmental conservation are organized to engage students, faculty, and staff. By observing World Environment Day, we underscore our dedication to nurturing a greener and more sustainable future, aligning with our mission of producing environmentally-conscious professionals and promoting sustainable practices across our campus and beyond. It's a day when we celebrate the beauty of nature and reiterate our responsibility to protect and preserve it for generations to come..



WORLD ENVIRONMENT DAY (PROMOTING ECO-FRIENDLY TRANSPORT IN CAMPUS)



WORLD ENVIRONMENT DAY (AWARNESS WALK)

OBSERVING WORLD ENVIRONMENT DAY

World Environment Day 2023, MNS University of Agriculture, Multan, Announced a Model Competition dedicated to promoting recycling and reuse within our university community.

This event provides an opportunity for students to demonstrate their commitment to environmental sustainability and to develop practical solutions for real-world challenges. By fostering a culture of recycling and reuse, we hope to instill lifelong habits that benefit both our immediate environment and the planet as a whole. Together, we can make a significant impact in preserving and protecting our precious natural resources. Stay tuned for further details and join us in this exciting initiative!




GLIMPSE OF MODEL COMPETITION (FROM RECYCLED WASTE)

SEMINAR ON EFFECTIVE WASTE MANAGEMENT

The seminar on "Effective Waste Management for Better Environment and Human Health" at MNS University of Agriculture, Multan, serves as a pivotal platform for advancing sustainability, environmental consciousness, and public health. This event brings together experts, scholars, students, and community members to delve into the critical issues surrounding waste management.

This seminar highlights the interconnection between proper waste management and environmental protection. It underscores the importance of reducing pollution, conserving natural resources, and mitigating the harmful effects of improper waste disposal on ecosystems. Simultaneously, it sheds light on the profound impact of effective waste management on public health, emphasizing the prevention of diseases and hazards associated with inadequate waste handling.

the seminar serves as a catalyst for fostering sustainable practices, encouraging participants to embrace recycling, composting, and waste reduction strategies in their daily lives. By instilling a sense of responsibility and urgency, it inspires individuals to become agents of positive change in their communities. Notification Attached.....




MNS-UNIVERSITY OF AGRICULTURE, MULTAN
Old Shujabad Road, Multan
GENERAL SECTION: REGISTRAR OFFICE
Tel: 061-9201541, Email: arg@mnsuam.edu.pk

No: MNS-UAM/RO-I-N/8045
Date: 26-12-2022

Notification

The Vice Chancellor has accorded approval to organized a seminar on "Effective Waste Management for Better Environmental and Human Health" on 27 December, 2022 being organized by the Department of Soil & Environmental Sciences and Clean Environment Volunteer Force of MNS University of Agriculture, Multan in collaboration with Multan Waste Management Company (MWMC). The object of said seminar to sensitize the students and community for proper waste segregation and management by highlighting the negative impacts of improper waste management on environment and human health. The following committee will look after all necessary arrangements of the said event in smooth manner. The detail of program is attached herewith.

1. Prof. Dr. Tanveer Ul Haq Chairman, Deptt. of FS&T	Convener
2. Dr. Ahmad Mahmood Assistant Professor, S&ES	Member
3. Dr. Muhammad Imran Assistant Professor, S&ES	Member
4. Dr. Muhammad Usman Jamshaid Lecturer/Senior Tutor	Member
5. Dr. Muhammad Arif Lecturer, S&ES	Member
6. Mr. Riaz Ahmad Deputy Registrar	Member
7. Mr. Waseem Arif (2019-uam-2408), CEVF	Member
8. Dr. Shakeel Ahmad Assistant Professor, S&ES	Secretary



Amjad Ali Khan
Assistant Registrar (G)

Copy to:-

1. Convener, Members and Secretary of the Committee
2. Secretary to the Vice Chancellor
3. P.A to the Registrar
4. Notification File

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NOTIFICATION REGARDING EFFECTIVE WASTE MANAGEMENT, MNSUAM

SEMINAR ON EFFECTIVE WASTE MANAGEMENT

27/12/22

Program:

Time	Activity
10:00-10:05am	Start of seminar with recitation from Holy Quran.
10:05-10:15	Welcome address by Prof. Dr. Tanveer-Ul-Haq, Chairman Department of Soil and Environmental Sciences.
10:15-10:45	A talk on "Impacts of Improper Waste Management on Environment and Society" By Dr. Shakeel Ahmad, DSES, MNSUAM.
10:45-11:15	A talk on "Role of Multan Waste Management Company (MWMC) in Effective Waste Management" by Anwar-ul-Haq, Manager Operation, MWMC.
11:15-11:30	Comments by Managing Director, MWMC.
11:30-11:45	Concluding remarks by Prof. Dr. Asif Ali, Vice Chancellor, MNS-University of Agriculture Multan
11:45-11:50	Vote of thanks by Prof. Dr. Shafqat Saeed, Dean Faculty of Agriculture and Environmental Sciences
11:50-12:00	Distribution of souvenirs

Scanned with CamScanner

CLEAN ENVIRONMENT VOLUNTEER FORCE

The Clean Environment Volunteer Force at MNS University of Agriculture, Multan, is a dynamic and enthusiastic group of students, faculty, and staff dedicated to championing environmental stewardship and promoting a sustainable campus. The Clean Environment Volunteer Force at MNSUAM exemplifies the power of collective action and underscores our commitment to safeguarding our planet and inspiring positive change within and beyond our campus boundaries.

Notification Attached.....



MNS-UNIVERSITY OF AGRICULTURE, MULTAN
 Old Shujabad Road, Multan
 GENERAL SECTION: REGISTRAR OFFICE
 Tel: 061-9201541, Email: arg@mnsuam.edu.pk


No: MNS-UAM/RO(G)-N-04/301

Date: 03-03-2023

Notification

The Vice Chancellor has accorded approval to constitute the following Advisory committees / Boards for different Clubs & Societies at MNS University of Agriculture, Multan.

Name of the Club/Society	Advisory Board	
Qirrat & Naat Club	Dr. Akhtar Hameed, (Asst. Prof. IPP) Hafiza Tahira Gul (Lecturer IPP) Dr Hafiz Zahid Mehmood (Lecturer, A&AE) Dr. Rasheed Ahmed (Lecturer Islamiyat)	Convener Member Member Secretary
Young Student Peace Society	Dr. Mirza Abdul Qayyum (Assoc. Prof. IPP) Dr. M. Usman Jamshaid (Lecturer SES) Mr. M. Usman Khan (Lecturer Horticulture) Ms. Umarah Zafar (Lecturer EST)	Convener Member Member Secretary
Clean Environment Volunteer Force	Dr. Shakeel Ahmed (Asst. Prof. SES) Dr. Ummara Waheed (Asst. Prof. IPBB) Dr. Muhammad Arif (Lecturer SES) Dr. Ahmed Mehmood (Asst. Prof. SES)	Convener Member Member Secretary
Coding Hawk Society	Dr. Salman Qadri (Chairman, CS) Dr. M. Umar Chaudhry (Asst. Prof. CS) Ms. Javeria Jabeen (Lecturer, CS) Dr. Nadeem Iqbal (Asst. Prof. CS)	Convener Member Member Secretary
Character Building Society	Rana M.Naeem (Asst. Registrar Legal) Ms. Aimen Batool, (Lecturer English) Dr. Ahsan Anjum (Lecturer FVAS) Ms. Syeda Anum Masood Bokhari (Lecturer Horti.)	Convener Member Member Secretary
MNS-UAM Arts & Dramatic Society	Mr. Manan Aslam (Lecturer, Agri. Business) Dr. Ummara Waheed (Asst. Prof. IPBB) Rana Muhammad Shahbakht (Lecturer FVAS)	Convener Member Secretary
MNS-UAM Debating Club	Dr. Umar Akram (IPBB) Dr. Hafiz Nazar Faried (Asst. Prof. Horticulture) Ms. Madiha Gohar (Lecturer IPBB)	Convener Member Secretary
Mossigala Beat	Dr. Muhammad Abid (Asst. Prof. Physics) Dr. Shazia Hanif (Asst. Prof. Agri. Engineering) Mr. Zeeshan Ahmed (Research Officer, ORIC)	Convener Member Secretary


 Anjad Ali Khan
 Assistant Registrar (G)

Copy to: -

1. Deans of the Faculties
2. Convener, Members and Secretary of the committee
3. P.A to the Registrar
4. Notification File

NOTIFICATION REGARDING CLEAN ENVIRONMENT VOLUNTEER FORCE

Water-Resilient Future



SUMMARY

MNSUAM, have made significant efforts in water conservation, Over 60% of water conservation programs successfully implemented, Our commitment extends to installing over 70% 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.



SUCCESSFUL IMPLEMENTATION OF WATER CONSERVATION PROGRAM

The purpose of a rainwater recharge system is to collect and hold rainwater so that it can soak into the ground and replenish the groundwater table. Rainwater from roofs, driveways, or other surfaces is often collected, directed into a storage tank, or directly into the earth through infiltration wells or trenches. This lessens surface runoff, replenishes groundwater levels, and prevents flooding. Such methods are advantageous for sustainable water management, particularly in regions with a scarce water resources. The MNS University of Agriculture's administration is highly worried about the system for recharging rainwater. This system was just implemented in block C by the management.



Rain Water Collection – Storage Ponds

EFFECTIVE IMPLEMENTATION OF WATER RECYCLING PROGRAM

With the help of WWF, the Muhammad Nawaz Shareef University of Agriculture in Multan developed an ablution water recycling system. The system will soon be connected to the ablution facility and the mosque is currently undergoing construction. The recycled water will be used in agriculture.



Grey Water System

OPTIMIZING USAGE OF WATER-EFFICIENT APPLIANCES

The use of water efficient appliances (water tap, toilet flush, etc.) installed at Muhammad Nawaz Shareef University of Agriculture, Multan. These appliances use less water, helping to conserve this precious resource and lowering water bills. Many water-efficient appliances also reduce the energy needed for heating water, resulting in additional cost savings and a smaller carbon footprint. These water-energy-efficient-appliances are environment friendly and also reduce stress on local water resources. The initial cost may be high but the long-term savings on water and energy bills make these appliances a sustainable choice, promoting sustainability and responsible resource management.



Water Efficient Appliances Usage

MULTIPURPOSE APPLICATIONS OF TREATED WATER



TREATMENT WATER



USE TREATED WATER FOR IRRIGATION

The university employs an environmentally responsible approach to manage its wastewater after treatment. This sustainable practice ensures that the wastewater is treated and is suitable for reuse. When the university requires water for irrigating its green areas, this ponds serve as a valuable resource. By utilizing the treated water, the university not only conserves valuable freshwater resources but also contributes to the overall sustainability of its operations. This initiative underscores the institution's commitment to responsible water management and environmental stewardship.

IMPLEMENTING A GREY WATER COLLECTION SYSTEM

With the use of a greywater collection system, less contaminated wastewater produced by sinks, showers, and laundry can be recycled and reused. The recycled grey water can be used for irrigation purposes, toilet flushing, and car washing. The aim is to conserve fresh water and use recycled water in those activities where less quality water is acceptable. This promotes the preservation of freshwater resources and can support more environment friendly water management.

The collection and utilization of grey water for non-potable purposes is in the major agenda of MNS University of Agriculture to meet the SDG-6. In this context, the grey water system has been recently installed near the academic building.



Water Recycling Program

ECO-FRIENDLY SEWAGE SOLUTIONS



Dr. Tanvir-Ul-Haq, Departmental Chairman informed that plantation near ponds could be conducted through this technology adding that varsity's experts are using polluted water for crop production by constructed wetland technology. Constructed wetland technique is an efficient, reliable, and active biological method for the removal of pollutants from wastewater that discharged from different point and non-point sources. It is a natural, environment-friendly, and economical indigenous wastewater treatment technique. This system comprised of series of ponds including sedimentation, treatment and collection ponds with specialized size and depth to speed up the process. In constructed wetlands, different native aquatic plants such as Duckweed, Water lettuce, Typha, pennywort and vetiver are used for the treatment of sewage water. Specially isolated microbes and algae further promote the process. The treatment system is developed with the financial support from HEC and local industry in Multan. The cost on the establishment of this system is much lower than commercial wastewater treatment plants.

OPTIMIZING WATER RESOURCES: GREYWATER AND RAINWATER SOLUTIONS

In MNSUAM, we implement a sustainable approach by utilizing greywater for the irrigation of our fields. This environmentally responsible practice not only conserves precious freshwater but also promotes resource efficiency on our campus.



OPTIMIZING WATER RESOURCES: GREYWATER AND RAINWATER SOLUTIONS

In MNSUAM, we employ rainwater for washing purposes, such as car and bus cleaning. 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



SUSTAINABILITY IN ACTION: WORLD WATER DAY



World Water day



SUSTAINABILITY IN ACTION: WORLD WETLANDS DAY



world wetlands day

Every year on February 2, World Wetlands Day is observed to raise awareness of the value of wetlands to the health and well-being of our world. Wetlands are crucial to our ecology and include a wide variety of ecosystems, such as swamps, marshes, and mangroves. They serve as organic sponges, soaking up more rainwater and lowering the chance of flooding. Wetlands also enhance biodiversity by serving as an essential habitat for a wide variety of plant and animal species.

ENSURING UNIVERSAL ACCESS TO CLEAN WATER AND SUSTAINABLE SANITATION FOR ALL



Addressing SDG-6

The goal of ensuring universal access to clean water and sustainable sanitation for all is a vital component of global development efforts. Access to safe drinking water and proper sanitation facilities is a fundamental human right, essential for health, dignity, and overall well-being. Yet, millions of people worldwide still lack these basic necessities, leading to preventable diseases and significant social and economic disparities. To address this challenge, governments, organizations, and communities must work collaboratively to develop and implement effective strategies that prioritize equitable access to clean water and sanitation services. MNS-University of Agriculture is taking special measures in this regard.

Eco-friendly TRANSPORTATION



11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION

15 LIFE ON LAND

17 PARTNERSHIPS FOR THE GOALS

SUMMARY

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 an 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.



 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- Vehicles may be parked for a specified duration only.



UNIVERSITY PICK AND DROP SERVICES

PICK & DROP SERVICE:

MNSUAM provides comfortable, safe & easily accessible transport to its students. For the extra convenience of the students the university arrange two trips in a day. Most of our students have use the public transport that is readily available on the university gate, This will help us to minimize the use of university own shuttle service and ultimate its contribution to the safe and eco-friendly transport system.

In addition to saving students time, the bus tracking app is introduced.

The information about shuttle service is also displayed on the notice boards placed around campus and accessible through the university's official website.



UNIVERSITY SHUTTLE SERVICE

1 st 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
2 nd 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
Route1	Golbag	Awan Chowk	Raza Abad	Airport Chowk	MDA Chowk	Nishtar Chowk	High Court	Bumanji Chowk	Railway Station	University
Route2	-	BZU	Chungi no 6	Chungi no 7	Kalma Chowk	Dara Ada	Aziz Hotel	Bital 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	Tounsa Street	Qasim Bela	Ghora Chowk	Grid Station	University	-
Route6	Piran Galib	Qazafi Stadium	Bital Motors	Kalma Chowk	Sp Chowk	Double Phatak	Chowngi no. 21	University	-	-

Shuttle Services – Bus Timetable (Muhammad Nawaz Shareef, University of Agriculture Multan)

UNIVERSITY SHUTTLE ROUTE TIMING:

UNIVERSITY'S GUIDELINES FOR ZERO EMISSION VEHICLES (ZEV)

MNSUAM also promotes a sustainable and eco-friendly campus culture, with an increasing number of students opting for bicycles as their primary mode of mobility within the campus. The availability of free access to bicycles within the university premises has played a pivotal role in encouraging this trend.

In our university, we prioritize both sustainability and physical fitness. To promote eco-friendly transportation and encourage students to stay active, we have implemented separate bicycle tracks within our campus. These dedicated tracks not only provide a safe and convenient route for students to commute around the university but also emphasize our commitment to reducing our carbon footprint. Additionally, we regularly organize bicycle race competitions as part of our extracurricular activities. These competitions not only add a competitive edge to campus life but also foster a sense of community and promote a healthy lifestyle among our students. They serve as a testament to our university's dedication to a well-rounded and environmentally-conscious education.



STUDENTS USES BICYCLE WITHIN THE UNIVERSITY:



FREE ACCESS TO BICYCLES:



PROMOTING ECO-FRIENDLY TRANSPORT IN CAMPUS



COUNT OF EFFORTS AIMED AT REDUCING PERSONAL VEHICLES ON CAMPUS

- Our university has taken a proactive approach to encourage sustainable transportation choices and reduce the congestion and environmental impact associated with private vehicles on campus.
 - To promote this initiative, we have implemented a policy of discouraging the use of private vehicles within the university premises by imposing a relatively high parking fee.
 - By doing so, we aim to incentivize students and staff to explore alternative, more eco-friendly modes of transportation, such as public transit, carpooling, cycling, or walking.
 - This strategy not only helps alleviate traffic congestion but also aligns with our commitment to creating a greener and more environmentally responsible campus community.
-
- Providing separate parking spaces for disabled persons is a crucial aspect of ensuring inclusivity and accessibility in public spaces. These designated parking spots are not just a convenience but a necessity for individuals with disabilities. They serve as a symbol of a society's commitment to equal rights and opportunities for all its citizens.



The image shows a university parking ticket form. At the top left is the university logo, a gear with a tree inside. To its right is the text "MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE, MULTAN". At the top right is a blue "P" parking sign. Below these are fields for "Veh No:" and "Date:". The parking fee is listed as "Rs 100/-". Underneath is a section titled "INSTRUCTIONS:" with three numbered points: 1- Use of a helmet is necessary. 2- Parking in disabled parking spots is strictly forbidden. 3- Vehicles may be parked for a specified duration only.

UNIVERSITY PARKING TICKET



PARKING FOR DISABLE PERSONS

PUBLIC TRANSPORT

- Our university boasts a commendable commitment to sustainability, exemplified by the widespread use of public transport among our students.
- This conscientious choice is facilitated by the university's strategic placement and its accessibility to public transportation networks.
- The convenience of having public transport pick-up and drop-off points right at the university's gates significantly contributes to the ease with which students utilize this mode of transportation.
- Beyond convenience, the cost-effectiveness of public transport.
- Reduced dependence on private vehicles translates into lower carbon emissions, aligning with our institution's sustainability goals.
- Our campus now stands as a testament to the positive impact of collective efforts in reducing our carbon footprint.

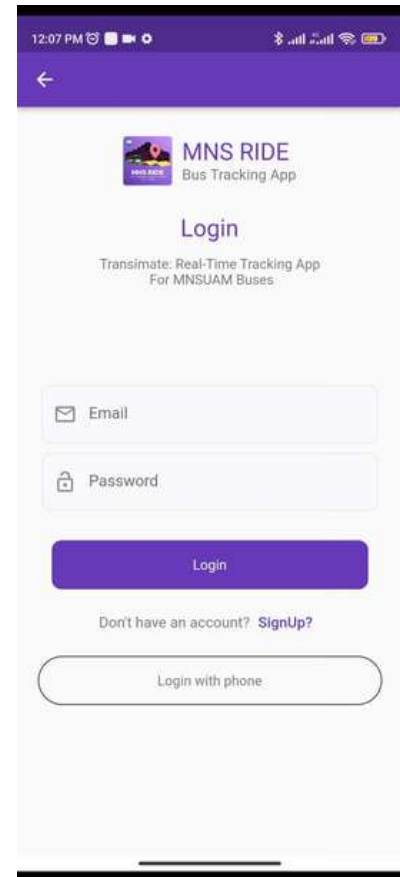


PUBLIC TRANSPORT FACILITY MNSUAM:



RIDE-SHARING APPLICATION

- In line with the modern trends in transportation, our university has embraced the use of ride-sharing apps as a convenient and efficient means of commuting.
- These apps have become an integral part of our campus life, offering students and staff a flexible and cost-effective way to travel to and from the university.
- The availability of ride-sharing services not only eases the burden of parking and reduces congestion on campus but also aligns with our commitment to sustainability by promoting the efficient use of vehicles and reducing the carbon footprint associated with individual car ownership.
- This integration of ride-sharing technology into our daily commute options reflects our university's adaptability and commitment to providing students and faculty with practical and environmentally conscious transportation solutions.



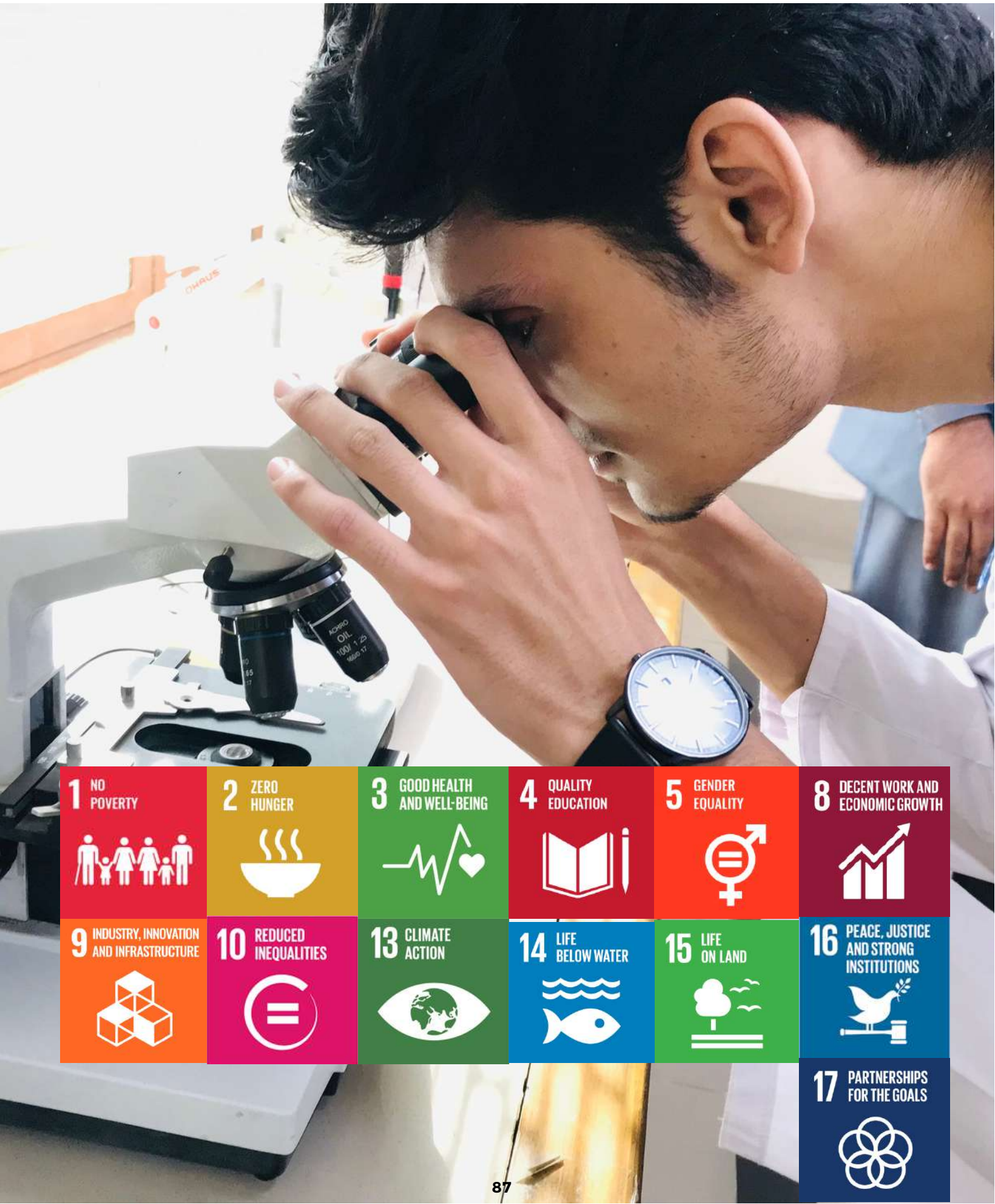
PEDESTRIAN TRAIL ON CAMPUS

- Our university boasts an extensive network of beautifully designed pedestrian paths that are frequented by students.
- they provide a safe and convenient means of transportation, allowing students to navigate the campus with ease while avoiding potential traffic hazards.
- these pedestrian paths encourage physical activity and walking, promoting a healthier lifestyle among our students.
- they contribute to the overall aesthetics of the campus, enhancing its visual appeal and creating a pleasant environment for learning and socializing.
- Such pedestrian-friendly infrastructure is crucial in any university as it not only ensures the safety and well-being of students.
- but also adds to the overall quality of the academic experience by providing a serene and inviting atmosphere for all.



CAMPUS WALKING PATH

Education & Research Advancing Together



1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	8 DECENT WORK AND ECONOMIC GROWTH 
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 	13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 
					17 PARTNERSHIPS FOR THE GOALS 

SUMMARY

MNSUAM 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 66% and a substantial 232 scholarly publications (Average Per annum) on sustainability. Our vibrant campus culture actively fosters sustainability through over 60 sustainability-related events and more than 30 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 five cultural events in each academic year. With more than ten international collaborations in our sustainability programs and we proudly engage on a global scale. Additionally, we have done more than five 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.

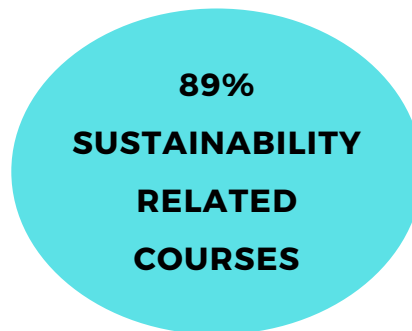


THE COUNT OF SUSTAINABILITY-RELATED COURSES OR SUBJECTS OFFERED

FOR UNDERGRADUATE PROGRAM

TOTAL NUMBER OF COURSES OFFERED:1042

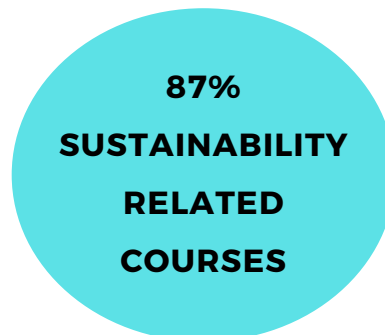
TOTAL NUMBER OF SUSTAINABLE COURSES OFFERED:925



FOR POST-GRADUATE PROGRAM

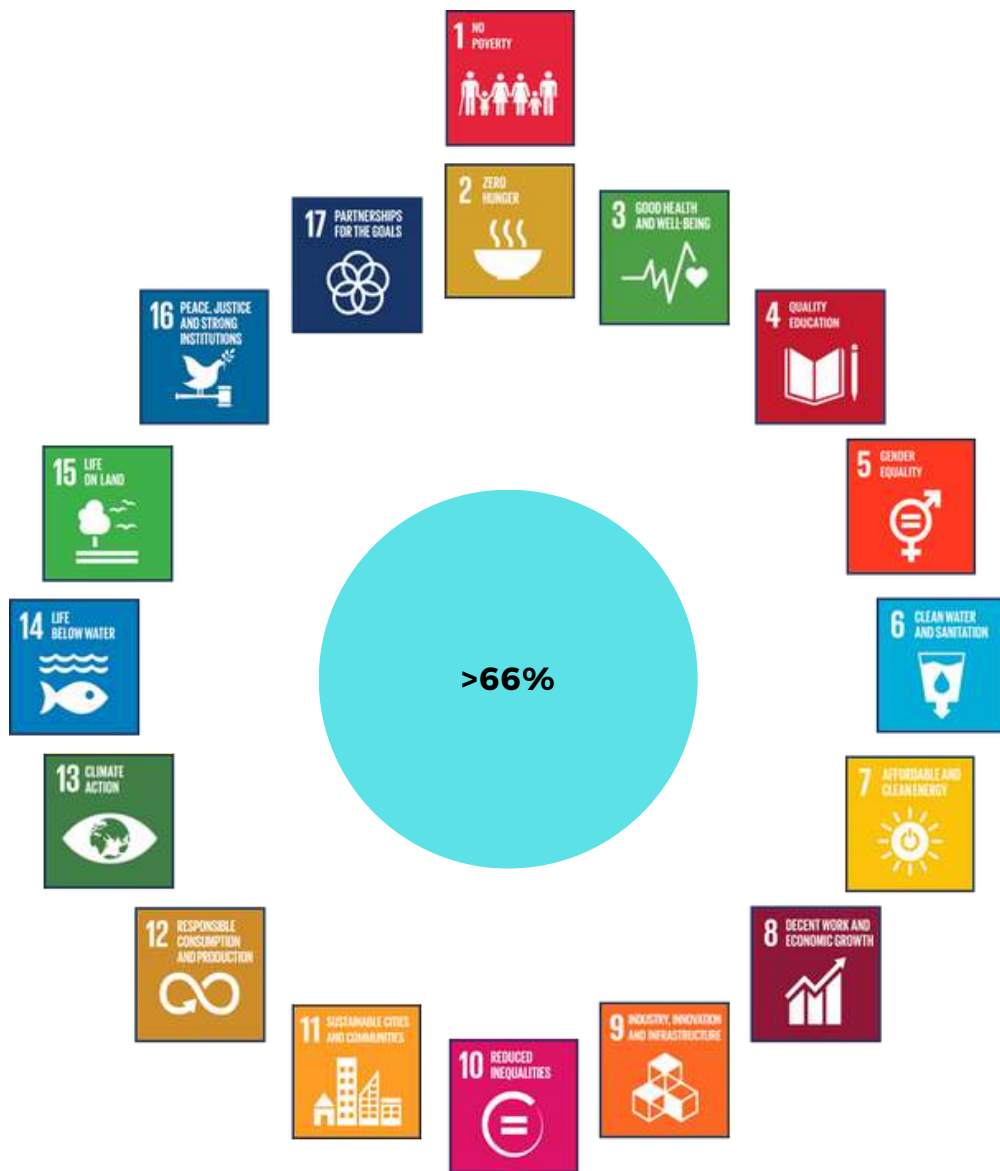
TOTAL NUMBER OF COURSES OFFERED:300

TOTAL NUMBER OF SUSTAINABLE COURSES OFFERED:261



THE PERCENTAGE FUNDING ALLOCATED TO SUPPORT RESEARCH IN SUSTAINABILITY

MNSUAM's aggregate funding allocated to support research in sustainability encompasses a significant financial commitment aimed at addressing critical environmental and social challenges. These funds support projects focused on sustainable practices, renewable energy sources, conservation efforts, and innovations that aim to create a more environmentally friendly and socially responsible future. By dedicating substantial resources to sustainability research, organizations and institutions demonstrate their dedication to finding solutions that will help mitigate climate change and promote a more sustainable and equitable world.



PERCENTAGE OF FUNDS DEDICATED TO SUSTAINABILITY

NUMBER OF SCHOLARLY PUBLICATIONS ON SUSTAINABILITY



ASSESSING THE FREQUENCY OF SUSTAINABILITY-RELATED EVENTS.



MoU with the Primary and Secondary Health Care Department of Punjab



Plantation Drive In collaboration with Engro Fertilizers Pakistan

PROMOTING GREENERY: PLANTATION DRIVE AND PLANT APPRECIATION DAY



OBSERVING PLANT APPRECIATION DAY



PLANTATION DRIVE WITH MULTAN LIONS CLUB

SUSTAINABILITY IN FOCUS: CONFERENCE ON SMART PLANT PROTECTION



3rd International Conference on Smart Plant Protection



Plantation Activity In collaboration with Corteva Agri Science, Okara

SOCIETY OF PUBLIC HEALTH AWARENESS INITIATIVES



OBSERVING WORLD POLIO DAY - ORGANIZED BY SOCIETY OF PUBLIC HEALTH



OBSERVING WORLD HEART DAY - ORGANIZED BY SOCIETY OF PUBLIC HEALTH

MNSUAM STUDENT SOCIETIES' ORGANIZED SPORTS GALA



WINTER SPORTS GALA - ORGANIZED BY SPORTS CLUB IN COLLABORATION WITH DIRECTORATE OF SPORTS



BASKET BALL TOURNAMENT - ORGANIZED BY SPORTS CLUB

SUPPORTING RECOVERY: FLOOD REHABILITATION CAMP AND MEDICAL DISPENSARY INAUGURATION



**FLOOD REHABILITATION CAMP SITE AT DG KHAN - ORGANIZED BY ROVERS
SCOUTS CLUB**



**INAGURATION CEREMONY OF MEDICAL DISPENSARY - ORGANIZED BY SOCIETY
OF PUBLIC HEALTH**

STUDENT SOCIETIES ACTIVITIES



**SESSION ON FREELANCING - ORGANIZED BY GREEN YOUTH
MOVEMENT**

UNIVERSITY SUSTAINABILITY WEB PORTAL

MNSUAM's Sustainability Web Portal is a central digital platform designed to promote and facilitate sustainable practices within the organization. It serves as a hub for information, resources, and tools related to sustainability initiatives. Through this portal, users can access guidelines for eco-friendly operations, track environmental performance metrics, and stay updated on sustainability events and news. It fosters transparency by sharing the institution's sustainability goals and progress, engaging stakeholders in the collective effort to reduce environmental impact. The portal encourages collaboration and empowers individuals and departments to contribute to a greener and more sustainable future. Additionally, the Sustainability Web Portal integrates the Sustainable Development Goals (SDGs) into our education, making them a visible and integral part of our academic mission. Here is the link for Web Portal (<http://techprojects.mnsuam.edu.pk/sustainability/>)



CULTURAL EVENTS HELD ON CAMPUS

The MNSUAM, is actively involved in fostering a vibrant cultural environment on campus, offering a diverse range of activities to engage and enrich the student experience. In total, the institution organizes five distinct cultural events throughout the academic year. These events serve as platforms for students to explore and celebrate various cultural traditions, art forms, and creative expressions. They not only provide opportunities for cultural exchange and appreciation but also contribute to building a more inclusive and interconnected campus community. From music and dance performances to art exhibitions and cultural festivals, these activities play a vital role in promoting cultural diversity and enhancing the overall educational experience for all members of the University community.



CULTURAL NIGHT-MANGO FESTIVAL-2022

CULTURAL EVENTS HELD ON CAMPUS



DICE-CULTURAL NIGHT-2022

CULTURAL EVENTS HELD ON CAMPUS



DICE-INNOVATION EXHIBITION-2022

CULTURAL EVENTS HELD ON CAMPUS



CULTURAL NIGHT-INTERNATIONAL HORTICULTURE CONFERENCE-2022

CULTURAL EVENTS HELD ON CAMPUS



HAPPINESS WEEK-CULTURAL EXHIBITION

CULTURAL EVENTS HELD ON CAMPUS



INTERFAITH HARMONY-CULTURAL DIVERSITY- ORGANIZED BY YOUNG STUDENT PEACE SOCIETY

SUM OF SUSTAINABILITY INITIATIVES ON CAMPUS WITH GLOBAL CONNECTIONS

MNSUAM has established a network of international academia collaborations. These partnerships serve as a vital platform for sharing knowledge, research findings, and best practices related to sustainable development. By collaborating with universities and educational institutions worldwide, we foster a global perspective on sustainability, facilitating research and initiatives that address environmental challenges and promote responsible practices. These collaborations reflect our commitment to advancing sustainability in education and research on a global scale, contributing to a more sustainable and environmentally conscious future.



MNSUAM has actively cultivated international industry collaborations. These partnerships are instrumental in promoting sustainable practices within the industrial sector. By collaborating with global industry leaders, we gain access to cutting-edge sustainable technologies and solutions. These collaborations facilitate the development of environmentally responsible practices, helping industries reduce their ecological footprint and transition towards more sustainable operations. MNSUAM's engagement with international industries underscores our commitment to fostering sustainability across various sectors and driving positive change in global business practices.

REVIVING AGRICULTURE: REHABILITATION DRIVE AND WORLD FOOD SAFETY DAY



AGRICULTURAL REHABILITATION DRIVE - ORGANIZED BY ROVERS SCOUTS CLUB



WORLD FOOD SAFETY DAY

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

1-Startup Name: Puchick (Pvt.) Ltd.

Description of business: Online marketplace for freelancers and artists.



WWW.PUCHICK.COM

2-Startup Name: Proti-N Enterprises (Multigrain Flour)

Description of business: Proti- N Enterprises was established in 2021. It is a registered firm of Punjab and also registered in Punjab Food Authority. Aim of Proti-N Enterprises is to facilitate customers with good quality food and nutritional products for diabetic and celiac patients. The company is dealing with different food item like Multi grain flour, gluten free flour and diabetic flour.



[HTTPS://INSTAGRAM.COM/PROTINENTERPRISES?](https://instagram.com/protinenterprises?IGSHID=MMU2YJMZNJRLOQM)
[IGSHID=MMU2YJMZNJRLOQM](https://instagram.com/protinenterprises?IGSHID=MMU2YJMZNJRLOQM)

3-Startup Name: F.M Marketing Alternate Energy

Description of business: We specialize in solar power and alternative energy projects, offering solutions such as wood gasification and biogas electrification. Additionally, we provide agribusiness solutions, including submersible water pumps for tube wells.



[HTTPS://WWW.FACEBOOK.COM/PROFILE.PHP?](https://www.facebook.com/profile.php?id=100065247230918)
[ID=100065247230918](https://www.facebook.com/profile.php?id=100065247230918)

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

4-Startup Name: RS Organic Food

Description of business: RS Organic Food is a supplier of Pakistani best fresh and dried fruits and vegetables. Pakistan's first mango brand is ours. We are supplying products in the Middle East, Europe, and China centre.



5-Startup Name: Paradise Foods and Catering

Description of business: Food services and Catering



6-Startup Name: Organic Agri Lines

Description of business: Deals in different organic products used in nurseries, kitchen gardening, high value crops, orchards, landscapes, indoor farming, urban agriculture and organic farmers. These organic products are Compost, Vermicompost, Biochar, BOP, Bio-Sulphur, Bio-Silica, Bio-Stimulant, Low pH and Soil Conditioners.



THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

7-Startup Name: Pioneer Aqua's Pvt.Ltd (value added fish products)

Description of business: Pioneer Aqua's: Pioneering freshwater fish processing, crafting delicious RTC and RTE value-added fish products in Pakistan.



WWW.FACEBOOK.COM/PIONEERFOODS

8-Startup Name: Stress Saviors Pvt. Ltd.

Description of business: Stress Saviors Pvt. Ltd. is a startup with a vision: to build Pakistan's first virtual reality-based mental health platform. Alongside offering a comprehensive range of mental health consultancy services, including behavioural tests, stress-relieving games, and nutritionist services, we are pioneering innovative technology to create a transformative and immersive experience for mental well-being. Our platform directly connects clients with certified professionals, making mental health support accessible and convenient, while our ultimate goal is to redefine the landscape of mental health support in Pakistan through cutting-edge virtual reality solutions. We are dedicated to serving individuals, organizations, and communities, empowering them to embark on a journey of emotional well-being and resilience.



StressSaviors

PRIVATE LIMITED COMPANY

WWW.FACEBOOK.COM/PIONEERFOODS

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

9-Startup Name: Triple Repulsion Electric Motors

Description of business: Extra Magnetism Extra Efficiency - Our Technology restores full repulsive force in a permanent magnet motor, and uses it along with full attractive force to create stronger output power without using additional input power.

How Repulsive Force was activated - A set of 4 techniques activates repulsive force in our motor without damaging attractive force and without using additional input power.



[HTTPS://WWW.TRIPLEREPULSIONMOTOR.COM/](https://www.triplerepulsionmotor.com/)

10-Startup Name: RAVAL MANGO

Description of business: Raval Mango Provide you Export Quality Mango at Your Door step. Delivery all over the Pakistan.



[HTTPS://YOUTUBE.COM/@RAVALMANGO?
SI=6HRL0W8YSZVWXYQL](https://youtube.com/@RAVALMANGO?SI=6HRL0W8YSZVWXYQL)

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

11-Startup Name: DOMESTIC SCALE AUTOMATIC EGG HATCHING UNIT

Description of business: To eliminate poverty to empower the villagers and women's. Empowerment of women villagers to shove the egg hatching & poultry industry. Efficient and easy to operate with natural environment. Economical and available for local community. Temperature and humidity plays an important role in the incubator. Increase moisture to soften the eggs and help the chicks emerge.



[HTTPS://YOUTUBE.COM/@RAVALMANGO?SI=6HRL0W8YSZVWXYQL](https://youtube.com/@RAVALMANGO?SI=6HRL0W8YSZVWXYQL)

12-Startup Name: Vibrant Vision (Graphic Designing Coaching & Services)

Description of business: Our graphic design coaching and services business offers a comprehensive range of design coaching packages and design services. We provide one-on-one coaching sessions with experienced graphic designers, tailoring packages to meet individual and small business needs, covering topics like logo design, brand identity, and marketing collateral. Our coaching packages include valuable resources like design templates, software tutorials, and design inspiration. In addition, we offer various design services, such as logo design, calendars, posters, banners, and website design, working closely with clients to bring their brand vision to life and create designs that resonate with their target audience.



[HTTPS://YOUTUBE.COM/@RAVALMANGO?SI=6HRL0W8YSZVWXYQL](https://youtube.com/@RAVALMANGO?SI=6HRL0W8YSZVWXYQL)

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

13-Startup Name: Moringlay

Description of business: We have designed our product packaging. Since, we are just starting, so at first we will buy Moringa leaves and after cleaning, drying them through a solar drier (no nutrient losses) will sell them in our packaging.



[HTTPS://WEB.FACEBOOK.COM/PROFILE.PHP?ID=10009064974212](https://web.facebook.com/profile.php?id=10009064974212)

14-Startup Name: MR MEAT

Description of business: My business idea is to deliver meat at doorsteps. The fresh and halal meat will be delivered within 3-4 hours or according to the distance after the customer has placed the order. The customer's satisfaction is our first priority. We aim to serve our best services. We assure you that after ordering once you'll order again and again INSHALLAH.



IBRAHIMSIDDIQUI1367@GMAIL.COM

15-Startup Name: Dattecs Pvt. Limited

Description of business: We are a tech company assisting businesses to adapt in accordance to the constantly changing technological landscape. We provide services related to digital marketing, and we plan to extend our operations into AI and Data Science in near future.



[HTTPS://DATTECS.COM](https://dattecs.com)

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

16-Startup Name: HONEY WORLD H.W ENTERPRISE (SMC) PRIVATE LTD

Description of business: Honey World is a renowned player in the beekeeping industry, founded in 2017 with a strong commitment to promoting sustainable beekeeping practices and providing high-quality honey products. Over the years, the company has garnered numerous awards both nationally and internationally especially got best entrepreneurship award by British council Pakistan under the project of COP26 2021, worked with WWF Pakistan, LPP (Lodhran pilot Project) Muslim Hand, Essar Scouts Muzaffargarh, Forest department Lahore, and local farmers Malik Aliyas Agriculture farm , RK FARM Agri Farm kottaddu solidifying its reputation as a leader in the industry. In addition to honey production, Honey World offers expert advisory and consultancy services to support the growth and success of beekeepers and honey enthusiasts worldwide.



WWW.HONEYWORLDPK.COM

17-Startup Name: Food Trace

Description of business: FoodTrace is a traceability solution that allows different food supply chain participants (Farmers, warehouses, logistics, retailers, and exporters) to share data about food supplies and their operations in the form of transactions. This system will enable registered supply chain participants to trace food produce from farm to consumer. Consumers will be able to get complete traceability information of food. We will operate as a service provider company and provide prospective customers with subscription services.



[HTTPS://TECHPROJECTS.MNSUAM.EDU.PK/FOODTRACE/](https://techprojects.mnsuam.edu.pk/foodtrace/)

THE COUNT OF STARTUPS DEDICATED TO SUSTAINABILITY INITIATIVES

18-Startup Name: HORTI DOCTORS

Description of business: Landscape design, execution & Maintenance services, Rooftop orchard Garden. Vertical green walls for food and environment, Microgreens Consultancy, Production of export quality ornamental plants.



ALEEM.TAQI@GMAIL.COM

19-Startup Name: Microbiome

Description of business: Insect pest and disease management is major problem now a days. We will provide pests management solutions by providing novel and smart pest management tools, chemosterilant and Bio-Stimulant are replacement of traditional pesticides. We developed different microbial natural bio pesticides, bio fertilizers and chemosterilant baits for fruit flies, termites, and other pests for their management. Our team will provide the services to farming community for development of fruit plants orchards by providing disease free nursery plants.



[HTTPS://WWW.MICROBIOMEAGRITECH.SITE/](https://www.microbiomeagritech.site/)

20-Startup Name: Uni Fresh

Description of business: Marketing of water



21-Startup Name: Uni Value

Description of business: Value added food products



ADDITIONAL LINKS

NEWSLETTERS DURING 2022-23 ACADEMIC YEAR

UIGM Parameters	Newsletter Month	Events Details	Evidence (Web Link)
EC	July 2022	Consultative session on Climate Change related Mango Production Challenges (Page #18)	https://mnsuam.edu.pk/images/Advertisements/2022/August/ORICs_New letter_July_2022.pdf
SI	July 2022	Awareness Seminar on Lumpy Skin Disease (Page # 30)	https://mnsuam.edu.pk/images/Advertisements/2022/August/ORICs_New letter_July_2022.pdf
SI	August 2022	Seed Ball Plantation Drive (Page #2)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	August 2022	MoU signed with Health Services Academy-Govt. of Pakistan (Page #4)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
EC	August 2022	Socio-Economic Benefits of Weather and Climate Services in Pakistan (Page # 6)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	August 2022	Independence Day Celebrations & Plantation Drive (Page # 16)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	August 2022	Inauguration of Wellness Centre at MNSUAM (Page #24)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf

ADDITIONAL LINKS

SI	August 2022	International Conference on Date-Palm and Pomegranate (Page #27)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	August 2022	Flood Relief Drive: Moral Obligation being Served with Passion (Page #44)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	August 2022	Anti-Dengue Activities (Page # 54)	https://mnsuam.edu.pk/images/Advertisements/2022/October/Bulletin_August_2022-1.pdf
SI	September 2022	Adapting to Salinity in the Southern Indus Basin (Page #02)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
SI	September 2022	Workshop on Stress Management at the World Peace Day (Page # 13)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
SI	September 2022	MNSUAM and Environment Protection Department Launched Plantation Campaign (Page # 13)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
SI	September 2022	Plantation Drive (Page # 18)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
EC & SI	September 2022	Energy Conservation and Plantation Drive under Green Youth Movement Society (Page # 20)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf

ADDITIONAL LINKS

SI	September 2022	Prospects of Kitchen Gardening (Page # 26)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
SI	September 2022	Flood Rehabilitation Camp and Allied Activities (Page # 29)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
ED	September 2022	DICE: Agricultural and Food Science Event (Page # 34)	https://mnsuam.edu.pk/images/Advertisements/2022/November/Sep_Bulletin-2_1.pdf
ED	October 2022	Kicking Off Wheat Sowing Campaign and DICE Agri and Food Science Event 2022 (Page # 02)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
EC & ED	October 2022	Seminar on Sustainable Availability of Healthier Food /Diet in Current Climate Change Context (Page #13)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
SI	October 2022	Seminar on the Eve of World Heart Day (Page #14)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
SI	October 2022	World Egg Day Celebrated at MNSUAM (Page #23)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
ED	October 2022	Workshop on E-commerce and Online Earning Skills (Page # 28)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf

ADDITIONAL LINKS

SI	October 2022	Breast Cancer Month (Page # 29)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
SI	October 2022	MNSUAM Celebrated World Food Day (Page # 35)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
SI	October 2022	World Polio Day (Page # 45)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
ED	October 2022	Seminar on the Effects of Fake News and Misinformation on Youth (Page # 49)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
ED	October 2022	Change Making Competition in Collaboration with YES Network, and Punjab Higher Education Commission (Page # 53)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
EC	October 2022	Public Forum Calls Upon World to Write Off Pakistan's Debts after Disastrous Floods (Page # 54)	https://mnsuam.edu.pk/images/Advertisements/2022/December/October_22_Bulletin-1.pdf
EC	November 2022	Long-Term Weather Forecast and Management Interventions for Wheat Crop (Page # 05)	https://mnsuam.edu.pk/images/Advertisements/2023/january/NOV_2022_BULLETIN.pdf
SI	November 2022	World Diabetes Day (Page # 09)	https://mnsuam.edu.pk/images/Advertisements/2023/january/NOV_2022_BULLETIN.pdf

ADDITIONAL LINKS

EC	November 2022	Seminar on Solar Energy (Page # 17)	https://mnsuam.edu.pk/images/Advertisements/2023/january/NOV_2022_BULLETIN.pdf
ED	November 2022	Sports Gala kicked Off at MNSUAM (Page # 20)	https://mnsuam.edu.pk/images/Advertisements/2023/january/NOV_2022_BULLETIN.pdf
ED	November 2022	One year of Basketball (Page # 32)	https://mnsuam.edu.pk/images/Advertisements/2023/january/NOV_2022_BULLETIN.pdf
SI	January 2023	Third International Conference on Smart Plant Protection (Page # 03)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf
WR	January 2023	Seminar on Water borne infections and potential remedies (Page # 04)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf
WR	January 2023	Training CITE) on Integrated Water Resources Management-MNSUAM (Page # 06)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf
SI	January 2023	Training Workshop on Kitchen Gardening (Page # 10)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf
ED	January 2023	HEC Intervarsity Basketball Championship 2022-2023 Zone-J (Page # 12)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf

ADDITIONAL LINKS

ED	January 2023	Seminar on World Education Day (Page # 20)	https://mnsuam.edu.pk/images/Advertisements/2023/feb/edit_news_bulletin_2-compressed.pdf
SI	February 2023	Visit of Mr. Neil Hawkins, Australian High Commissioner to Pakistan (Page # 03)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
ED	February 2023	Weekly Basketball (Page # 06)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
SI	February 2023	Seminar on Medicinal Plants for Better Human Health-MNSUAM (Page # 09)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
ED	February 2023	Digital Agribusiness Marketing in Pakistan: Challenges and Opportunities (Page # 10)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
EC	February 2023	Long-term weather forecast and management interventions for wheat crop (Page # 11)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
ED	February 2023	Fish Feed Formulation (Page # 13)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
ED	February 2023	Food Safety Awareness Session for Food Handlers in Malik Food Industries (Page # 14)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
SI	February 2023	Spring Flower Festival 2023-MNSUAM (Page # 15)	https://mnsuam.edu.pk/images/Advertisements/2023/may/feb_news.pdf
ED	March 2023	Seminar on International Women Day-MNSUAM (Page # 09)	https://mnsuam.edu.pk/images/Advertisements/2023/April/march_news-4.pdf
ED & SI	March 2023	Happiness Week-MNSUAM (Page # 17)	https://mnsuam.edu.pk/images/Advertisements/2023/April/march_news-4.pdf

ADDITIONAL LINKS

SI	March 2023	Wildlife Conservation Drive-MNSUAM (Page # 20)	https://mnsuam.edu.pk/images/Advertisements/2023/April/march_news-4.pdf
WR	March 2023	Awareness Walk on World Water Day-MNSUAM (Page # 21)	https://mnsuam.edu.pk/images/Advertisements/2023/April/march_news-4.pdf
SI	April 2023	Plantation Drive at JPW-MNSUAM (Page # 03)	https://mnsuam.edu.pk/images/Advertisements/2023/April/april_file.pdf
SI	April 2023	Training Session on Kitchen gardening at DHA Multan (Page # 05)	https://mnsuam.edu.pk/images/Advertisements/2023/April/april_file.pdf
SI	April 2023	International Plant Appreciation Day-MNSUAM (Page # 06)	https://mnsuam.edu.pk/images/Advertisements/2023/April/april_file.pdf
SI	May 2023	Training Session on provision of First Aid and Bleeding Control-MNSUAM (Page # 06)	https://mnsuam.edu.pk/images/extra/mayfinal.pdf
EC & ED	May 2023	International Congress on Academic studies, Changing World Opportunities and Challenges-MNSUAM (Page # 07)	https://mnsuam.edu.pk/images/extra/mayfinal.pdf
SI	May 2023	HIV / Hepatitis Screening and Awareness Seminar-MNSUAM (Page # 09)	https://mnsuam.edu.pk/images/extra/mayfinal.pdf
ED	May 2023	Accolade for MNSUAM at National games 2023 Cycling Competition (Page # 12)	https://mnsuam.edu.pk/images/extra/mayfinal.pdf
ED	June July 2023	Seminar on the betterment of Environment-MNSUAM (Dated: June 06, 2023) (page # 05)	https://mnsuam.edu.pk/images/extra/JuneJulyNewsletter.pdf
ED	June July 2023	Commemorating International World Food Safety Day (Dated: June 07, 2023) (page # 06)	https://mnsuam.edu.pk/images/extra/JuneJulyNewsletter.pdf
SI	ORIC'sNewsletterJune2023	Breaking the Chain of Drug Addiction (page # 03)	https://mnsuam.edu.pk/images/extra/ORIC'sNewsletterJune2023.pdf

DOCUMENT NAME	WEB LINK
ANNUAL REPORT 2022-23	https://mnsuam.edu.pk/images/extra/annual2023.pdf