

MNS-University of Agriculture, Multan

ANNUAL REPORT

2025-2026


بسم الله الرحمن الرحيم

ANNUAL REPORT
2025-26

MNS University of Agriculture, Multan

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ANNUAL REPORT 2025-26

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VICE CHANCELLOR'S MESSAGE



Dear Readers,

It is with great pleasure, and a profound sense of shared pride, that we present the Annual Report of Muhammad Nawaz Shareef University of Agriculture, Multan, for the academic and financial year 2025-2026. This report is a comprehensive volume that not only chronicles our diverse institutional endeavors, but also serves as a testament to the resilience, dedication, and collaborative spirit of our entire university community. As I have resumed my responsibilities as Vice Chancellor of MNSUAM, for a third tenure, following an absence of twenty months during which the university's previously rapid progress unfortunately experienced a temporary, yet highly noticeable, deceleration, I am filled with both a profound sense of institutional obligation and an unwavering optimism for our collective future. This period of transition, marked by a pausing of our key strategic initiatives, has undoubtedly left its mark on our developmental pace; nevertheless, it has also highlighted the core resilience of our academic community, reinforcing the vital necessity of our mission to serve the agricultural heartland of South Punjab. It is with this renewed mandate, and a clear-eyed appreciation of the immense tasks that lie ahead, that my team and I have dedicated this past year to restoring our momentum, rebuilding crucial industry linkages, and setting the stage for a sustainable, high-impact future.

Dear readers, Agriculture in Pakistan is currently undergoing a critical structural shift, operating under the severe pressures of climate change, resource scarcity, and an urgent national demand for enhanced food security, all of which place an extraordinary premium on modern, technology-driven higher education. Within this challenging framework, South Punjab stands as both our most productive agricultural engine and our most vulnerable ecological zone, suffering from acute soil salinity, recurrent floods, and persistent crop yield gaps that can only be bridged through rigorous scientific intervention and proactive technology transfer. MNSUAM has taken up this formidable challenge, positioning itself not merely as an isolated center of academic learning, but as an active, socially responsible partner to our local farming communities, working tirelessly to convert theoretical laboratory breakthroughs into practical field solutions that empower the smallholder farmer.

Our concerted efforts over the preceding year have already begun to bear fruit, as evidenced by our heartening return to prominent positions within prestigious global and national evaluation rankings. In the Times Higher Education Impact Rankings 2026, the university achieved the remarkable distinction of placing second overall in Pakistan and in the 301–400 cohort globally, reflecting our deep institutional alignment with the United Nations Sustainable Development Goals. This global reputation was further mirrored by the UI GreenMetric World University Rankings 2025, where we

secured the third position nationally and 145th worldwide, and by the QS World University Rankings by Subject 2026, which placed MNSUAM within the 301–350 band globally for Agriculture & Forestry, thereby validating our scientific citation impact, our rising academic standing, and the growing trust of national and international employers.

Crucial to these successes has been our determination to foster a highly competitive research and entrepreneurial ecosystem, driven actively by our Office of Research, Innovation, and Commercialization (ORIC) and our Business Incubation and Agricultural Entrepreneurship Centre (BIAEC). ORIC, evaluated by the HEC in the 'X' category and ranked first in South Punjab, successfully managed a total research portfolio of 44 ongoing projects valued at approximately PKR 995 million, bringing 18 research and industrial contracts worth PKR 110.92 million to completion during the fiscal year. Simultaneously, BIAEC was recognized by the HEC as the top Business Incubation Centre in all of Pakistan in the 'W' category for the third consecutive year, incubating 33 diverse startups that have actively generated 111 jobs and 33 practical internships, effectively bridging the gap between youth-led innovation and commercial market realities.

In parallel, we have taken bold strides to expand our regional and international collaborative footprint, executing 36 major agreements of cooperation with prominent partners across China, Türkiye, Indonesia, Thailand, Azerbaijan, Uzbekistan, and the United States, alongside crucial domestic linkages with leading industrial organizations and NGOs. A primary example of this global collaboration is our flagship public-private seed venture for hybrid cotton seed production, revised and re-awarded on June 9, 2026, with an enhanced budget of PKR 54.807 million in partnership with Guard Agricultural Research and Services and China's leading research institutes, which aims to boost cotton productivity by fifteen to twenty percent. To ensure that these agreements do not remain mere paper commitments, we have successfully implemented a structured, three-phase Monitoring and Evaluation Mechanism to track active deliverables and maintain rigorous accountability.

An institution's academic progress must always be supported by a corresponding expansion of its physical infrastructure, a reality that saw our Directorate of Planning and Development actively managing a diversified capital portfolio during the fiscal year. Through federal HEC-PSDP funding, we fully utilized PKR 254 million to advance construction on the new Academic and Lecture Theatre Block and the Multipurpose Hall, while provincial ADP resources of PKR 151.751 million and PKR 223.531 million enabled the substantial completion of our female hostel, an indoor gymnasium, and the groundbreaking National Crop Genomics and Speed Breeding Center. These developments were beautifully complemented by philanthropic and community contributions that finalized the modern Sardar Tanveer Ilyas Library and the Fatima-Tu-Zahra Masjid, transforming our campus into a spiritually enriching and technologically advanced center of learning.

Essential to restoring administrative stability and academic momentum has been our steadfast commitment to institutional governance, marked by the regular convening of our statutory bodies to ensure policy continuity and transparent decision-making across all university operations. During the 2025–26 financial year, the University convened five meetings of the Syndicate, three meetings of the Selection Board, three meetings of the Academic Council, and four meetings of the Board of Advanced Studies and Research (BASR), providing a firm legal and regulatory foundation for institutional growth. Through these statutory forums, significant progress was made in filling key statutory positions, approving deserving faculty and staff promotions, and inducting fresh academic talent to strengthen our instructional capacity.

Our Quality Enhancement Cell (QEC) continues to embed outcome-based teaching, TTS faculty reviews, and systematic stakeholder feedback across 1,022 courses evaluated this year, ensuring that as we grow in size, our commitment to academic quality, integrity, and operational transparency remains completely uncompromising. In fact, the comprehensive improvement of our pedagogy and the refinement of classroom instruction stand as a central agenda of my current tenure, and we are leaving no stone unturned to elevate the quality of our teaching to the highest possible standard. Our efforts to modernize teaching methodologies, implement advanced digital toolsets, and enhance the student learning experience are being pursued with relentless vigor, as we firmly believe that pedagogical excellence is the ultimate, non-negotiable measure of our academic success.

I must express my deepest gratitude to our faculty, whose intellectual rigor remains our greatest asset, to our administrative staff, whose quiet dedication keeps our machinery in motion, and above all, to our students, whose talent, energy, and hope represent the very purpose of this university. To our partners in government, industry, and the international scientific community, I extend a warm invitation to continue walking this path with us, for while we have successfully stabilized our course over this past year, the horizon of agricultural excellence remains far ahead, demanding our continued passion, our shared resources, and our unwavering faith.

Prof. Dr. Asif Ali (T.I.)
Vice Chancellor

EXECUTIVE SUMMARY

Agricultural sector development in Pakistan remains the backbone of the national economy, and modern agricultural higher education is pivotal to transforming traditional practices into sustainable, climate-resilient systems. In this context, South Punjab serves as a vital agricultural heartland facing distinct regional challenges, such as soil salinity, climate change vulnerabilities, and crop yield gaps. Against this backdrop, Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) has emerged as a crucial institutional anchor in this region, dedicated to improving higher education opportunities and driving regional agricultural sector development. Through the establishment of collaborative networks, the facilitation of technology transfer, and a strong commitment to serving local farming communities, the University is fulfilling its broader academic and social responsibility.

During the 2025–26 academic year, MNSUAM solidified its position as a premier agricultural institution of higher learning by achieving outstanding milestones across prestigious global indices. In the Times Higher Education (THE) Impact Rankings 2026, the university secured the second position overall in Pakistan and placed within the 301–400 cohort globally, reflecting its active stewardship and research alignment with the United Nations Sustainable Development Goals. This global standing is further validated by the UI GreenMetric World University Rankings 2025, where MNSUAM achieved third position nationally and 145th worldwide, continuing its long-term trajectory of campus greening and carbon footprint mitigation. Additionally, the university marked a significant milestone by entering the 301–350 range globally for Agriculture & Forestry in the QS World University Rankings by Subject 2026, which highlights its growing academic reputation, research citation impact, and employer trust.

These international honors are strongly reinforced by rigorous national evaluation benchmarks conducted by the Higher Education Commission (HEC) of Pakistan. HEC evaluated and placed MNSUAM's Office of Research, Innovation, and Commercialization (ORIC) in the 'X' category, designating it as the first ranked research office in South Punjab. Simultaneously, the Business Incubation and Agricultural Entrepreneurship Centre (BIAEC) was placed in the 'W' category, also securing the first position in the South Punjab region. Under the HEC Business Incubation Centre Assessment, BIAEC was further celebrated as the top Business Incubation Centre in all of Pakistan within its category for the third consecutive year. These accolades demonstrate the university's capacity to effectively translate theoretical academic concepts into high-impact, socially responsible economic realities.

The foundation of MNSUAM's research excellence rests on a robust and diversified funding portfolio overseen by ORIC, which managed 44 ongoing projects valued at approximately PKR 995 million. Faculty members demonstrated exceptional competitiveness during the fiscal year by securing 16 new research grants worth PKR 144.79 million, encompassing PKR 74.53 million from international bodies and PKR 70.26 million from national agencies. Furthermore, the university successfully brought 18 research projects and industrial contracts worth PKR 110.92 million to completion. Beyond direct grant acquisition, ORIC generated a total revenue of PKR 72.25 million, which includes PKR 56.51 million in sponsorships, PKR 14.83 million in research project overheads, PKR 0.43 million in consultancies, and PKR 0.48 million in laboratory sample analysis services.

Deepening its ties to the commercial sector, MNSUAM aggressively expanded its industrial research partnerships during the 2025–26 fiscal year. ORIC secured funding for 8 new industrial and contract research projects totaling PKR 39.73 million, while managing a cumulative active portfolio of 20 ongoing industrial projects with a combined allocation of PKR 131.83 million. A major highlight of the year was the strategic revision and re-awarding of a flagship international public-private seed venture focused on hybrid cotton seed production. Conducted in collaboration with Guard Agricultural Research & Services, Multan, and China's Biotechnology Research Institute and Cotton Research Institute, this 60-month project was re-awarded on June 9, 2026, with an enhanced budget of PKR 54.807 million—representing an increase of PKR 20.89 million over its original allocation.

MNSUAM's domestic and global collaboration footprint grew substantially through the proactive efforts of the Directorate of External Linkages, which facilitated the signing of 36 collaborative agreements during the year. These agreements established 16 international partnerships with esteemed institutions from China, Türkiye, Indonesia, Thailand, Azerbaijan, Uzbekistan, and the United States, alongside 20 national agreements with public and private organizations across Pakistan. To ensure these partnerships yield active results rather than remaining paper agreements, the university successfully implemented a three-phase MoU Monitoring and Evaluation Mechanism to track progress and outcomes. The university also leveraged the HEC CPEC Consortium of Universities to strengthen scientific and educational cooperation with key Chinese partners in climate-smart agriculture and biotechnology.

To match this academic and collaborative growth, the Directorate of Planning and Development managed a major capital investment portfolio to expand the university's physical infrastructure. Under the federal HEC Public Sector Development Program (PSDP), the ongoing 'Provision of Basic Facilities at MNSUAM' project utilized PKR 254 million in 2025–26 to advance civil works on the Academic & Lecture Theatre Block and the Multipurpose Hall. At the provincial level, Annual Development Program (ADP) funds supported the 'Strengthening of MNSUAM' project with PKR 151.751 million, leading to the substantial completion of a female hostel, an indoor sports gymnasium, and an overhead water reservoir. Furthermore, the 'National Crop Genomics and Speed Breeding Center' project utilized PKR 223.531 million, enabling the building to be partially handed over and functional for state-of-the-art agricultural research.

Several core infrastructural landmarks reached final completion, permanently transforming the university's landscapes and service capabilities. Completed projects include the extensive Phase-II Main Campus Core Infrastructure (valued at PKR 1,746.258 million), which stands as the physical anchor of the main campus, and the underground irrigation pipeline network spanning approximately nine kilometers at the Jalalpur Pirwala Experimental Farm (valued at PKR 170.00 million), which provides a reliable water system for agricultural trials. Through philanthropic and community-funded donations, the university also finalized the Sardar Tanveer Ilyas Library (PKR 30.00 million), establishing a modern central learning resource center, and completed the Fatima-Tu-Zahra Masjid (PKR 116.710 million) as a central place of worship and community learning. Plans for future expansion were also prioritized, with comprehensive proposals designed for a Research, Skill Development and Outreach Centre at Khanewal and the Maryam Nawaz Exhibition Centre.

Academic quality and pedagogical rigor were tightly upheld by the Quality Enhancement Cell (QEC) to promote a culture of outcome-based education. QEC executed extensive online course and teacher evaluation feedback, analyzing 557 courses in the Winter 2025–26 semester and 465 courses during Spring 2026. Systematic faculty oversight was maintained through the Departmental Technical Review Committees, which processed 60 annual reviews, 25 mid-probationary reviews, and 10 tenure reviews for Tenure Track System (TTS) faculty members. Institutional progress was audited via a Graduate Program Review and a comprehensive Self-Review of Institutional Performance and Enhancement (RIPE) across 16 rigorous standards under the revised HEC PSG-2023 guidelines. These rigorous standards paved the way for curricular expansions, including Syndicate approvals to launch a PhD in Agribusiness Management and a BS in Economics with Data Science, alongside obtaining HEC clearance to resume MS Public Health and PhD Zoology programs.

The university's vibrant campus environment thrived under the Directorate of Student Affairs and the Career Development Center, which prioritized holistic student welfare and post-graduation employability. Over 20 active student societies engaged the community, organizing major national declamation contests and securing 19 positions at the Lyallpur Art & Lit Fest 2026. Student physical and mental wellness facilities were expanded to three locations, supported by anti-dengue weekly surveillance and a blood donation drive that collected 109 blood bags. To bridge the gap between academic innovation and employment, BIAEC nurtured a diverse portfolio of 33 incubated startups. Across 14 of these reporting startups, a cumulative 33 internships, 78 placements, and 111 jobs were created for both male and female students, securing commercial linkages and preparing the next generation of agri-business leaders.

MULTAN: THE CITY OF SAINTS

Welcome to the city of saints; rich of culture, colors, history, and an epitome of modernization. Multan has a population around . It is considered to be one of the oldest cities of Pakistan and its history 2,106,000 fades away in the mists of myth and mythology. Multan is the birthplace of renowned Sufis like Baba Farid and it is the resting place for many like Sheikh Bahauddin Zikria, Bibi Pak Daman, Shah Shams Tabrez and Shah Rukn-e-Alam. It has a significant contribution to rich Sufi culture in the subcontinent. The aforementioned Sufis preached the teachings of Islam and are considered to be the fiag bearers of peace and harmony among the region. The Sufi culture of Multan is a fresh blow of air to the otherwise hot weather of the region. The shrines and mausoleums that are considered to be the identity of the city are adorned with the touch of blue and white Mongolian art, the famous blue pottery which is embedded in the culture of Multan. Famous and historically significant mosques in the city like Jamia Mosque, the first mosque to be built here by Muhammad Bin Qasim when he conquered this city, Sawi Mosque, Mosque Baqarabadi, and Mosque Ali Muhammad Khan stand in gratitude to the Creator. Taking in account the history of this city, one cannot forget to mention the famous gates of Multan known as Lohari Gate, Pak Gate, Haram Gate, Daulat Gate, Bohar Gate and Delhi Gate. Old bazars like Hussain Agahi, narrow streets that blanket these gates add to the richness of cultural heritage of this city. From Qilla Qasim fort to the Ghanta Ghar chowk, or Clock tower, there is a patch that covers the history of this city from old sufi saints to the infiux of British Raj in the subcontinent.

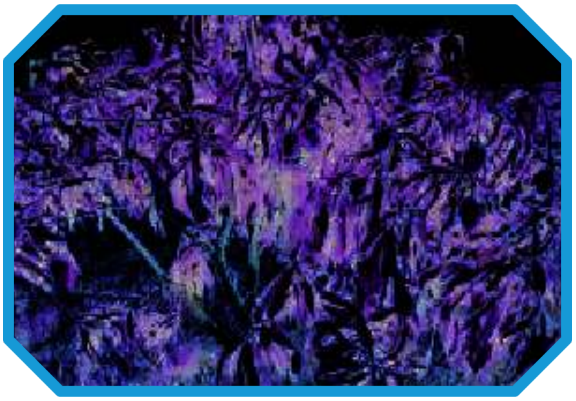
Say two words, “Multan” and “Winters” in front of a food-lover, and the next thing you will hear will definitely be Sohan Halwa. Sohan Halwa is to winter what mangoes are to summer, except the former is not limited just to the winters. This famous sweet which has become the defining symbol of Multan is available and carried through all over the country any time of the year. When talking about the treat for the people of Multan in summers, it is the king of the fruits, the Mango. Mango orchards on the eastern side of the city blossom throughout the summer season. Out of 150 varieties of mangoes grown in Pakistan, their major production is carried out in Multan. Anwar Ratol, Langra, Dussehri, and the infamous Chaunsa, all are widely cultivated in Multan. The ripening season of Chaunsa lasts from July till late August.

Multan has the second oldest medical institute built by Sardar Abdul Rab Nishtar, known as Nishter Hospital, which was extended to Nishter Medical College and later upgraded as Nishter Medical University. It has various departments and considered to be Punjab's largest hospital in terms of area. Talking about old institutes in Multan, let's not forget Bahauddin Zakariya University named after the Sufi saint Hazrat Bahauddin Zakariya. Established in 1975, BZU is one of the largest universities in Punjab. MNS University of Agriculture is another emerging institute in Multan, which is environmentally the most sustainable university in the country and ranked 1st among Pakistan. It has covered a long and toilsome journey to move from its humble suburban vicinity to the present state of the art campus. Agriculture-based research and highly qualified staff of this university is a blessing for the farmers and this institute plays a vital role in introducing modern techniques to the traditional practices in the field of agriculture.

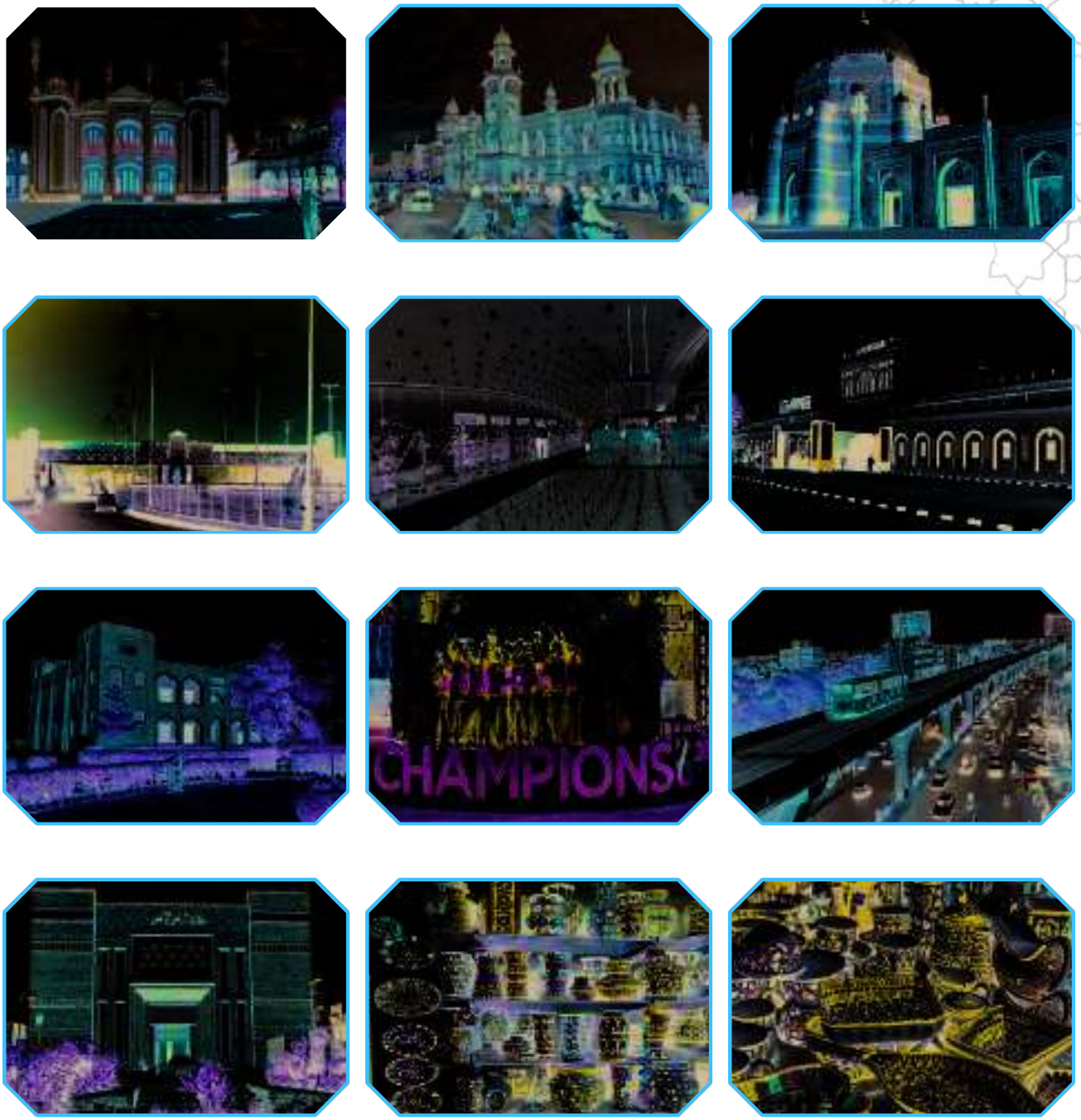
Another gigantic structure that adds to the beauty of this city is the State Bank of Pakistan's building located in the heart of the city. Neighboring some other significant structures like Multan Arts Council, Multan Chamber of Commerce, and Sports Complex, the building was completed in 1998 and is an epitome of modernity and adroit architect.

Talking about all other metropolitans of Pakistan, Multan is considered to be the most peaceful city, with a well-developed infrastructure. Big investors are now making investments in this city and it is developing rapidly as different housing societies, malls, industries, and restaurant chains are coming to Multan, taking it to the next level of development and modernization. Overall, if you want to connect to the history and enjoy the aspects of the modern world, Multan is definitely one of the best cities to visit in Pakistan.








CHAMPIONS

MNSUAM: AN INTRODUCTION

The MNS University of Agriculture, Multan (MNSUAM) is an HEC recognized higher education institution established in 2012. Within a short span of time, the University has made rapid progress in terms of expanding its academic programs, students' enrolment, physical infrastructure, campus network, and hiring highly qualifed and experienced academic and administrative staff. As a matter of fact, MNSUAM is considered as one of the fastest growing academic institutions of Pakistan, which is evident in the reports and comments made by officials from HEC, NAEAC, Agriculture Department, Representatives of the Government, and local and foreign experts, who visit the varsity from time to time. The main campus of the University is located at Old Shujabad Road, Multan, neighboring several different wings and formations of Punjab Agriculture Department positioned within a radius of 2-3 kilometers. These include Mango Research Institute, Central Cotton Research Institute, Cotton Research Station, Agricultural Mechanization Research Institute, Soil and Water Testing Laboratory, Directorate of Water Management, Agricultural Extension Wing, Pest Warning and Quality Control of Pesticides, Fisheries Department, Federal Seed Certification and Registration Department. All these offces and the University have combined into an “Agriculture Complex” with a common agenda of facilitating the farming community of the region. The University's main campus is spread on an area of 180 acres at a prime location in Multan and consists of purposefully built buildings including Academic Block, Administration Block, Girls and Boys hostels, Library, Faculty and Staff residences etc. For carrying out agricultural research activities, the University has established a separate graduates block, centralized labs system, agricultural farms at the main campus as well as at Jalalpur Pirwala comprising 500 acres.

Over the years, the University has introduced several new degree programs to provide multidisciplinary education to the students with innovative approaches. The University has strengthened its teaching resources by hiring new qualified faculty through regular, TTS and IPFP appointments following a transparent and rigorous process of recruitment. The administrative offices have also been manned with qualifed and experienced staff members to provide necessary support to the University for carrying out its functions. The University has instituted a Center for Agricultural Sustainability in South Punjab (CAS-SP) and Department of Outreach and Continuing Education this year to strengthen it research and outreach initiatives. The Office of Research, Innovation and Commercialization (ORIC) is working for capacity building of the faculty for enhancing research activities. The Quality Enhancement Cell (QEC) is mandated to ensure quality teaching and research through continuous assessment for better outcomes. The Directorate of Students Affairs provides all necessary support to students with respect to their admission, selection of subjects, registration, financial support etc., whereas the Career Development Center helps them and suitable jobs after completion of their degrees. It is worth mentioning here that the University manages more than 60 percent of its final semester internships as paid internships which provide an excellent learning environment to the young graduating students.

Furthermore, overwhelming employability of MNSUAM graduates in the private sector shows the competitive strength of the university graduates. The University regularly conducts national and international events including conferences, seminars, workshops, and festivals. Some activities have now become the trademark of this University such as Dice AFS, Sino-Pak International Cotton Conference, Climate Smart Agriculture Conference, Smart Plant Protection Conference, Spring Festival, Kisan Mela, Fish Mela, Annual Cotton Seminar and Mango Festival. The University has the honor of among the top 5 teams in the national Microsoft Imagine Cup during the last two consecutive years. Acknowledging the efforts for developing a Sustainable Campus, the UI GreenMetric World University Rankings 2023 has ranked MNSUAM at number 1 among the universities across Pakistan. With a vision to highlight a positive image of our country onto the canvas of the world and lure international markets for bilateral trade, investment and business, the University is actively playing its part to explore new horizons for economic betterment of Pakistan.

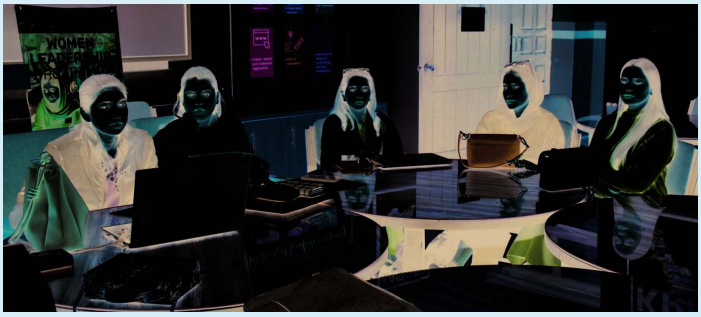


ACADEMIC ACTIVITIES

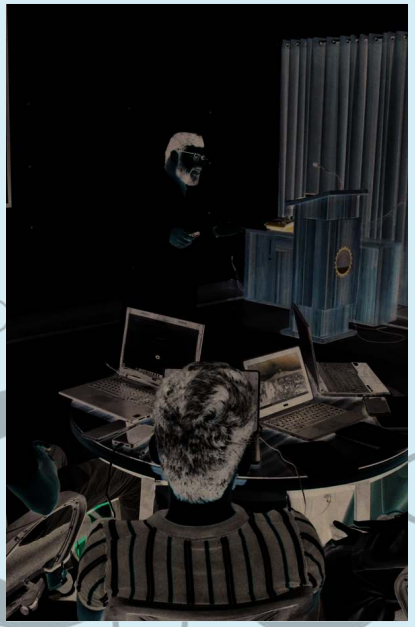


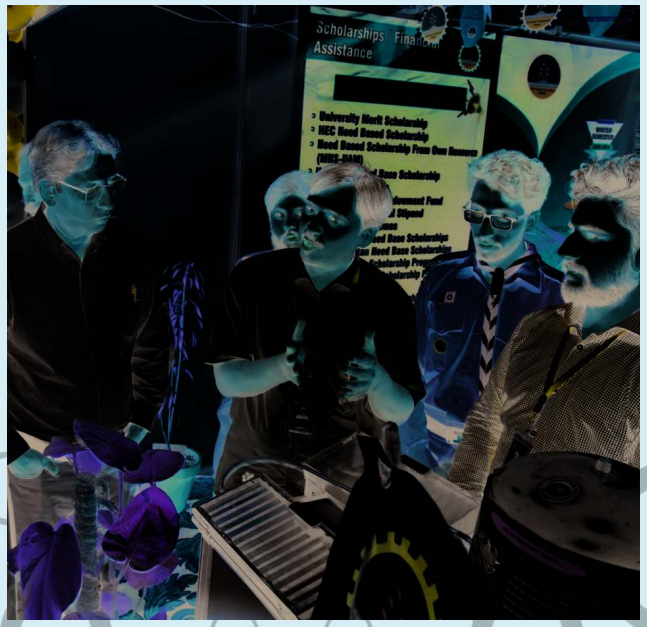
Chapter 1
Academic Activities





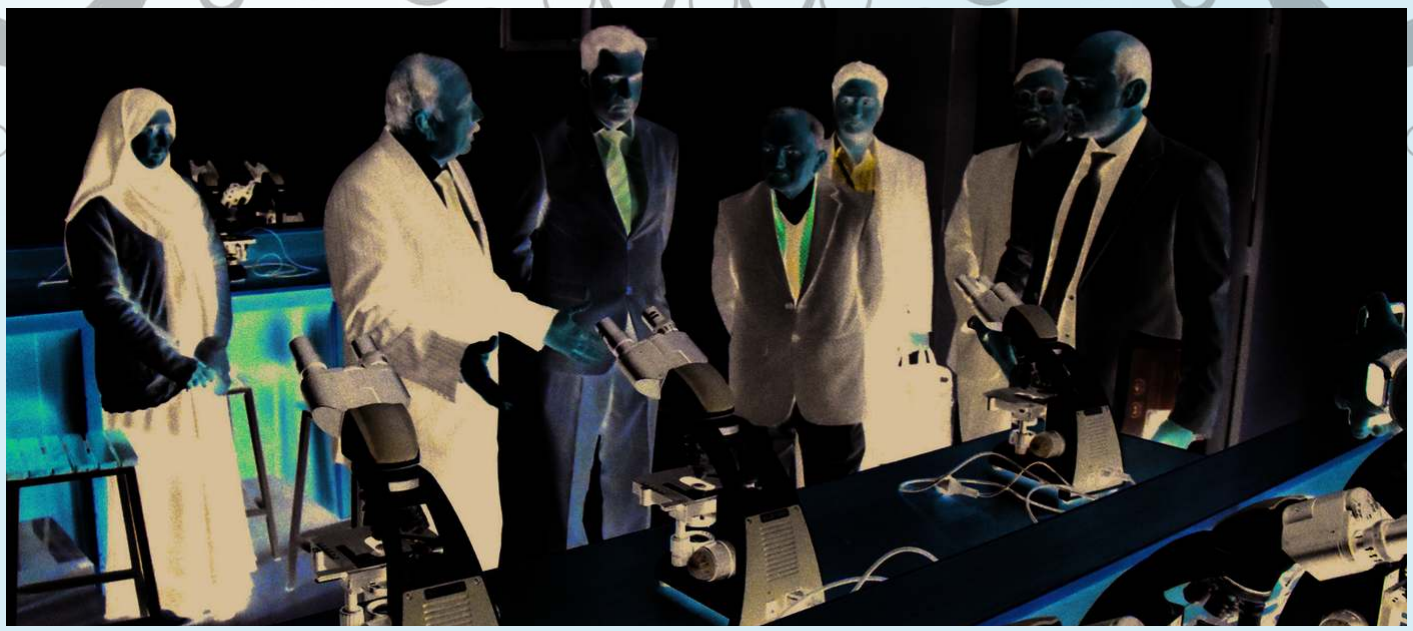






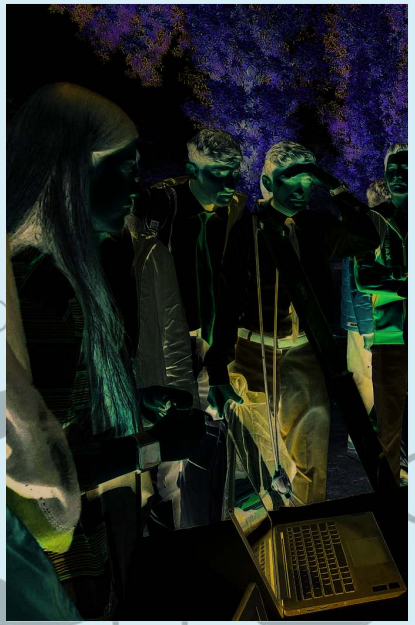


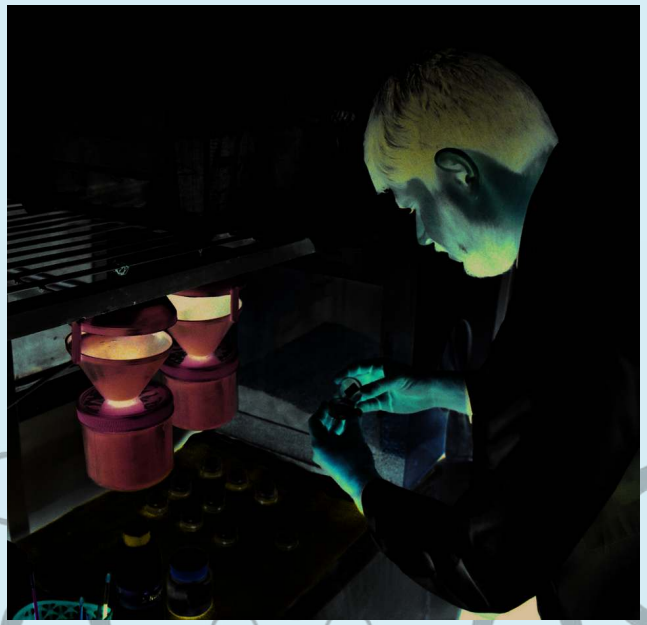
Chapter 1
Academic Activities

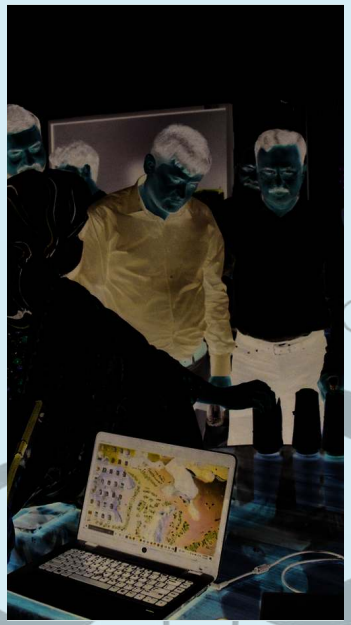












Chapter 1
Academic Activities













CHAPTER 01

ACADEMIC ACTIVITIES

In order to ensure production of trained human resources and to meet a wide array of needs of scientists, experts and extension workers in the rapidly growing agriculture sector, allied trades and industries, the University offers integrated teaching and special research programs in allied sciences and agriculture. The University has come a long way from its humble beginning to its current state as an expanded campus with fully operational teaching Labs, research farms, and a well-equipped Graduate Labs Block. The University is progressing well in the blended education system. The faculty, students and administration are committed to fulfilling their responsibilities to achieve academic aspirations.

1.1 FACULTIES & DEPARTMENTS

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

- Department of Agronomy
- Department of Horticulture
- Department of Soil and Environmental Sciences
- Deparment of Entomology
- Deparment of Plant Pathology
- Department of Climate Change
- Institute of Plant Breeding and Biotechnology
  - Biotechnology
  - Plant Breeding and Genetics
  - Seed Science and Technology

FACULTY OF AGRICULTURE AND BIO-SYSTEMS ENGINEERING AND TECHNOLOGY

- Department of Agricultural Engineering

FACULTY OF SOCIAL SCIENCES AND HUMANITIES

- Department of Agricultural and Resource Economics
- Department of Agribusiness and Applied Economics
- Department of Outreach and Continuing Education

CENTER FOR AGRICULTURAL SUSTAINABILITY IN SOUTH PUNJAB

FACULTY OF FOOD AND HOME SCIENCES

- Department of Food Science and Technology
- Department of Human Nutrition and Dietetics
- Department of Home Sciences

INSTITUTE OF COMPUTING

CHAPTER
01 ACADEMIC ACTIVITIES

FACULTY OF VETERINARY AND ANIMAL SCIENCES

- Department of Animal and Dairy Sciences
- Department of Biochemistry and Biotechnology
- Department of Clinical Sciences
- Department of Zoology, Wildlife and Aquaculture
- Department of Pathobiology and Biomedical Sciences
- Department of Poultry Sciences
- Department of Pharmacy





1.2 DEGREE PROGRAMS OFFERED

1.2.1 UNDERGRADUATE

The undergraduate programs offered by the University with duration and requisite qualification are given below:

Sr. No.	Degree	Academic Qualification	Marks Requirements
1	B.Sc. (Hons.) Agriculture	Intermediate Science (Pre-Medical/ Pre-Engineering)/ Pre Agriculture, DAS (Diploma in Agriculture Sciences) on reserved seats.	Minimum 50% of total mark
2	BS Environmental Science	Intermediate Science (Pre-Medical/ Pre-Engineering)/ or Equivalent qualification	
3	BBA Agribusiness	Intermediate	
4	B.Sc. (Hons.) Agricultural and Resource Economics	Intermediate Pre-Medical or Intermediate Pre-Engineering or ICS with Economics or I.COM/D.COM or A-level	

5	BS Computer Science/BS Data Science /BS Information Technology	1. F.Sc. (Pre-Engineering/Pre-Medical)/ ICS/ A-level students (with Mathematics/Biology) 2. Minimum 50% marks in intermediate 3. DAE (specialized in electrical, mechanical, electronics and Telecommunication) (two (02) reserved seats only). 4. An equivalency certificate by IBCC **Note:** Students of F.Sc. (Pre -Medical)/ A-level students (with Biology) must have to take deficiency courses of Mathematics of 6 credit hours within one year of their regular studies.	
6	BS Home Economics	F.Sc. Pre-Medical/Pre-Engineering/ICS/ F.Sc. Pre-Agriculture/FA Home Economics/A- levels/DAE Equivalent to intermediate/ADP (5th semester intake)	
7	B.Sc. Agro Industrial Engineering Technology	F.Sc. (Pre-Engineering, Pre-Medical, or Pre-Agriculture), ICS, A-Level or DAE (Three Years) in Civil, Mechanical, Auto & Farm, Electrical, Electronics, Chemical, Instrumentation field	Minimum 50% of total mark
8	BS Poultry Science	F.Sc (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks. Candidates having FSc (Pre-Engineering) and FSc (Pre-Agriculture) will also be eligible subject to qualify deficiency course in Biology.	
9	B.Sc. (Hons.) Animal Science	F.Sc (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks. Candidates having F.Sc. (Pre-Engineering) and F.Sc. (Pre-Agriculture) will also be eligible subject to qualify deficiency course in Biology.	
10	BS Microbiology	F.Sc. (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks.	

11	BS Zoology	F.Sc (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks. Candidates completed 2-year BSc/ADP (Botany, Zoology) can apply for 5th semester of BS Zoology.	
12	BS Biochemistry	F.Sc (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks.	
13	BS MLT	F.Sc. (Pre-Medical) with 50% Marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks.	
14	BS Public Health	FA or F.Sc. Pre-Medical/Pre-Engineering with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks.	
15	BS Biotechnology	F.Sc (Pre-Medical) with 50% marks or an IBCC equivalent qualification in Pre-Medical Group/relevant discipline with at least 50% Marks.	
16	B.Sc. (Hons.) Human Nutrition and Dietetics	F.Sc (Pre Medical), F.Sc (Pre-Agri), F.Sc (Pre-Eng), F.Sc (Food related subjects), A-Levels (having equivalency of any of above offshoot) DAE in Food related subjects	Minimum 50% of total marks
17	B.Sc. Agricultural Engineering	Intermediate Science (Pre-Engineering and Pre-Medical) / Intermediate with combination of Physics, Mathematics, Biology & Computer Studies / ICS / Three years Diploma of Associate Engineer (DAE) in Civil, Mechanical, Auto & Farm Machinery, Auto & Diesel, Mechanical/Machinery, Automation	Minimum 60% of total marks

18	BS Food Science and Technology	50% marks in FSc. Pre-Medical, FSc. Pre-Engineering, FSc. Pre-Agriculture, DAE (Food Science and Technology) 50% marks in A level with biology, chemistry, mathematics. Two seats are reserved in this quota.	
19	BS Economics with Data Science	Intermediate	Minimum 50% of total marks
20	BS Sociology	Intermediate	





1.2.2 POSTGRADUATE

Sr. No.	Degree/Discipline	Program	Duration (Semester) Min	Max	Eligibility Criteria
1	M.Sc. (Hons.) Agronomy, Entomology Horticulture, Human Nutrition and Dietetics, Food Science and Technology, Plant Breeding and Genetics, Plant Pathology, Soil Science	Regular	4	6	• B.Sc. (Hons.) Agri. with major in relevant field of study from any HEC recognized university / DAIs. • At least Second Division ≥50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/ Equivalent test with passing score 50% or MNS-UAM Entry Test with passing score 50% is also acceptable. • Biotechnology and Microbiology having agriculture background considered eligible for M.Sc. (Hons.) Plant Pathology. (Deficiency courses will be offered where necessary)

2	M.Sc. (Hons.) Agriculture Economics	Regular	4	6	• A minimum CGPA of 2.5 on a scale of 4.0 in the field of B.Sc. (Hons.) Agricultural Economics, B.Sc. (Hons.) Agricultural & Resource Economics, BBA Agribusiness, BS Economics and B.Sc. (Hons.) Economics. OR • A minimum 2nd Division (annual system) in Master's Degree (2 years)/ M.Sc. Economics (2 years). • Must qualify the admission test with a minimum score of 50 marks. • The deficiency courses will be offered to students with these degree programs, depending on the requirements assessed by the departmental committee.
3	M.Sc. (Hons.) Seed Science and Technology	Regular	4	6	• B.Sc. (Hons.) with major in Seed Science and Technology, Agronomy, Entomology, Food Science & Technology, Horticulture, Plant Breeding & Genetics, Soil Science, Biotechnology, Plant Pathology, from HEC recognized Universities/DAIs. (Deficiency courses will be offered to the admitted students on the recommendation of the department if required). • At least Second Division 50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% or MNS-UAM Entry Test with passing score 50% is also acceptable.
4	M.Sc. (Hons.) Biotechnology	Regular	4	6	• B.Sc. (Hons.) Agriculture with all majors/ BS or M.Sc. in relevant subject from HEC recognized Universities/DAIs. (Deficiency courses will be offered to the admitted students on the recommendation of the department if required) • At least Second Division 50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% or MNS-UAM Entry Test with passing score 50% is also acceptable.

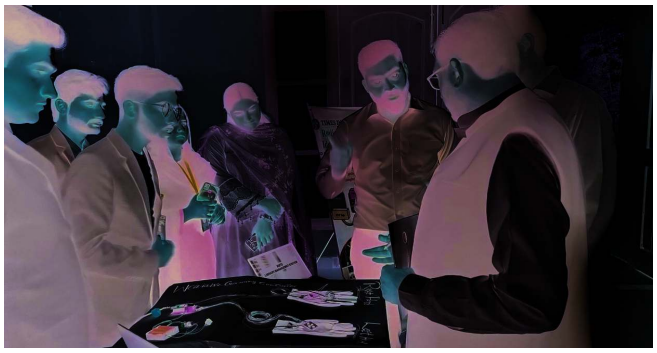
5	M.Sc. (Hons.) Climate Change	Regular	4	6	• Sixteen years of Education in any of the following disciplines: Agricultural Sciences (All majors)/ B.Sc. (Hons.) Soil and Environmental Sciences/ Agri. Engineering/Environmental Engineering/ Environmental Sciences, /Agri. Economics / Food Science and Technology/ Dairy Technology/ Dairy Science and Technology/ DVM / Animal Husbandry/ Poultry Sciences/ Fisheries/ Agri. Business. • Deficiency courses will be offered to the admitted students on the recommendation of the department if required. • At least Second Division 50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% OR MNS-UAM Entry Test with passing score 50% is also acceptable.
6	M.Sc. (Hons.) Agricultural Extension	Regular	4	6	• 4-year Bachelor B.Sc. (Hons) Agricultural Extension or any major of Agriculture. • Student having B.Sc. (Hons) Agriculture other than Agricultural Extension major will have enroll deficiency courses as per recommendation of supervisory committee with approval of BoS. • At least Second Division 50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% OR MNS-UAM Entry Test with passing score 50% is also acceptable.
7	M.Sc. (Hons.) Agro Industrial Engineering Technology	Regular	4	6	• Four-year Bachelor's degree in Agro-Industrial Engineering Technology, Industrial Engineering Technology, Chemical Engineering Technology, Mechanical Engineering Technology, Food Science and Technology,

					• Energy Engineering Technology and Industrial Engineering, Industrial Manufacturing Engineering, Industrial Engineering Management, Agricultural Engineering, Chemical Engineering, Mechanical Engineering, Energy Systems/Energy Engineering, Environmental Engineering, Food Engineering from HEC recognized University/Institute. • At least first Division 60% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% OR MNS-UAM Entry Test with passing score 50% is also acceptable.
8	M.Sc. (Hons.) Agricultural Engineering	Regular	4	6	• Four-year Bachelor's degree in Agricultural/Civil/ Mechanical /Water Resource Engineering from HEC recognized University/ Institute. • At least first Division 60% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% OR MNS-UAM Entry Test with passing score 50% is also acceptable. • The percentage score will be considered only if the CGPA is not recorded/mentioned on the transcript.
9	Master of Science (MS) Computer Science	Regular	4	6	• BS (CS) 4 Years Degree Program (minimum 130 credit hours), or Computer Science Conversion Course 2 Years Degree Program referred to as "MCS" or MSc (Computer Science). • Candidates having Computer Engineering / Bachelor of Science in Software Engineering / Bachelor of Science in Information Technology / Bachelor of Engineering in Information Technology / Bachelor of Engineering (Computer & Information System) / B.Sc. Computer System Engineering (16-year education) and

					• MIT from a recognized institution are also eligible but have to qualify deficiency course(s) before entering in the MSCS. Deficiency courses will be decided by departmental committee. • Candidate must have at least CGPA 2.50 out of 4 or first division wherein GPA system not implemented.
10	MS Management (Specialization in Agribusiness)	Regular	4	6	• BBA (Agribusiness)/B.Sc. (Hons.) Agricultural Economics / Agricultural and Resource Economics, Marketing and Agribusiness Major. (Four years degree programs), BBA/BS Bachelor of Business Administration/ Commerce, BS Accounting and Finance, General BBA (with deficiency courses of one semester to be decided by BoS of the institute) and with other related disciplines, MBA (Agri. Business) (two years degree program)/ MBA (3.5 years, 2 years with deficiency courses of one semester to be decided by the Board of Studies of the Institute) M.Sc. (Economics) (with deficiency courses of one semester as decided by the department), General BBA (4-year) (with deficiency courses of one semester as decided by the department) • B. Sc. (Hons.) Agri. (all other majors)/ B. Sc. (Hons.) A.H./ DVM/ B. Sc. (Hons.) Food • Sciences/ B. Sc. (Hons.) Agri. Engineering/ B. Sc.(Hons.) Agro Industrial Engineering and Technology (AIET)/ B. Sc.(Hons.) (with deficiency courses of one semester as • decided by the department), BS Agribusiness and Marketing (4-year degree program). • All degrees should be from HEC recognized Universities/DAIs. • At least Second Division 50% marks for annual system or CGPA not less than 2.50 / 4.00 for the semester system. • Qualified GRE/HAT General/Equivalent test with passing score 50% Or MNS-UAM Entry Test with passing score 50% is also acceptable.

11	Master in Business Administration (MBA) (Specializations: Food and Agribusiness Management, Supply Chain Management, Marketing, Fintech)	Regular	4	6	• (Relevant Qualification) • Minimum 16 years of education, having background in BBA Agribusiness, BBA (Hons), BS Economics/ Commerce/Marketing/HRM/Accounting and Finance or relevant qualification that refers to degrees where a minimum of 65% of courses are from core Business or Management domain. • Minimum 50% marks or 2.50 CGPA out of 4.00 • Entry test as per the University Rules • Note: The exemption of courses will be decided by BOS/Departmental committee as per NBAEAC guidelines for relevant qualification as level 7. • (Non-Relevant Qualifications) • Minimum 16 years of education in any field other than Business and Management, are eligible for admission to the program. • Minimum 50% marks or 2.50 CGPA out of 4.00 • Entry test as per the University Rules
12	M.Sc. (Hons.) Human Nutrition and Dietetics	Regular	4	6	• BS/B.Sc. (Hons.) Human Nutrition and Dietetics, BS. Food Science and Nutrition, Doctor of Nutrition and Dietetics, BS/ B.Sc. (Hons.) Home Economics (Food and Nutrition), with minimum CGPA: 2.5/4.00 or at least 2nd division. OR • B.S/B.Sc. (Hons.) Food Science and Technology/ Food Technology, B.Sc. (Hons.) Agriculture (Food Technology/ Food Science and Technology), B.Sc. (Hons.) Dairy Science and Technology / Dairy Science, B.Sc. (Hons.) Microbiology, Doctor of Veterinary Medicine, Pharm D, MBBS, BS/ B.Sc. (Hons.) Public Health, BS/B.Sc. (Hons.) Fisheries, BS/B.Sc. (Hons.) Poultry or BS/B.Sc. (Hons.) Animal Nutrition with minimum CGPA: 2.5/4.00 or at least 2nd division. • (Note: Deficiency courses will be offered to the admitted students on the recommendation of the department if required.)

					• Qualified GRE/HAT General/Equivalent test with passing score 50% OR MNS-UAM Entry Test with passing score 50% is also acceptable.
13	Executive Master in Business Administration (EMBA)	Weekend	4	6	• Candidates with an undergraduate degree (16 years of qualification) are eligible for admission to the program • Minimum 50% marks or 2.50 CGPA out of 4.00 • At least three years of working experience • Entry test as per the University Rules





1.2.2 DOCTORAL PROGRAMS

Sr. No.	Degree/Discipline	Program	Duration (Semester) Min	Max	Eligibility Criteria
1	Doctor of Philosophy (Ph.D.) Agronomy, Entomology, Horticulture, Biotechnology, Plant Breeding & Genetics, Seed Science & Technology, Plant Pathology, Soil Science, Food Science and Technology	Regular	8	12	• M.Sc. (Hons.) / M.Phil. / MS (18 years of education) in relevant subject from HEC recognized Universities/DAIs. • A Research proposal. • At least first Division 60% marks for annual system or CGPA not less than 3.0 / 4.00 for the semester system. • Qualified GRE/HAT General test conducted by testing bodies accredited by HEC with passing score 60% or Qualified subject test conducted by MNS-UAM with a minimum passing score 70%. • Biotechnology and Microbiology having agriculture background considered eligible for PhD Plant Pathology

2	Ph.D. Agricultural Economics	Regular	8	12	• M.Sc. (Hons.)/ MS/ M.Phil. in Agricultural Economics/ Agriculture and Resource Economics/ Environmental Economics/ Development Economics/ Economics with minimum CGPA of 3.0 out of 4.0. • Must qualify the admission test with a minimum score of 70 marks.
3	Ph.D. Human Nutrition and Dietetics	Regular	8	12	• M.Sc.(Hons.)/M.S. Human Nutrition and Dietetics, M.Sc. (Hons.) Human Nutrition with minimum CGPA 3.00/4.00 or at-least 1st division. OR • M.Sc. (Hons.) Food Science and Nutrition, M.S/ M. Phil/ MSc (Hons) Food and Nutrition, M.Sc. (Hons.) Food Science and Technology/ Food Technology, M.Sc. (Hons.) Dairy Science and Technology, M.Sc. (Hons.) Food Safety and Quality Management, M.Sc. (Hons.) Food Service Management, FCPS (with MPhil Equivalent certificate), MS/ M.Sc. (Hons.) Public Health, MS/M.Sc. (Hons.) Fisheries, MS/M.Sc. (Hons.) Poultry or MS/M.Sc. (Hons.) Animal Nutrition with minimum CGPA 3.00/4.00 or at-least 1st division. • (Note: Deficiency courses will be determined by the Board of Studies of the department). • Qualified GRE/HAT General test conducted by testing bodies accredited by HEC with passing score 60% OR Qualified subject test conducted by MNS-UAM with a minimum passing score 70%. • A Research proposal. • Any other requirement recommended by HEC or approved by the department.
4	Ph.D. Computer Science	Regular	8	12	• MS/MPhil degree in Computer Science, Information Technology, Software Engineering Data Science, Information Security, Artificial Intelligence. Computer & Information System and Engineering) subject from a recognized university.

- At least first Division 60% marks for annual system or CGPA not less than 3.0 / 4.00 for the semester system.
- Qualified GRE/HAT General test conducted by testing bodies accredited by HEC with passing score 60% OR Qualified subject test conducted by MNS-UAM with a minimum passing score 70%.
- Any other requirement recommended by HEC or approved by the department.

1.3 DIRECTORATE OF GRADUATE STUDIES

1.3.1 MISSION

The mission of the Directorate of Graduate Studies is to streamline the admission and research process of postgraduate students and provide all possible guidelines regarding course work, GS-10, synopsis and thesis preparation and submission. Moreover, to facilitate the students timely collection, approval and processing of their documents.

1.3.2 VISION

To enhance the quality of research, to automate the system of admission of postgraduate students and minimize the document's processing time through the use of available technology.

1.3.3 FUNCTIONS

To enhance the quality of research, to automate the system of admission of postgraduate students and minimize the document's processing time through the use of available technology.

- To process the approval of new/revised postgraduate courses through Graduate Study Research Board (GSRB)/Board of Advanced Studies and Research (BASR).
- Processing of applications for admission to M.Sc., M. Phil./MS/M.Sc. (Hons.) and Ph.D. programs.
- Collection of course work and enrolment forms (GS/10) of postgraduate students in each semester.
- Scrutiny of the synopsis and thesis, course work and supervisory committees of M.Sc./MS/M.Sc. (Hons.) and Ph.D. students and arranging their approval by BASR.
- Scrutiny of the thesis of postgraduate students to ensure their proper format as laid down by BASR.
- Preparation of agenda and conduct of meetings of BASR.
- Execution of the policies and decisions of BASR.

1.4 GRADUATE RESOURCE CENTER

MNS University of Agriculture Multan initiated a novel initiative in the form of a Graduate Resource Center (GRC) during October 2017 after discussion and approval of the Executive Committee of the University. The GRC is an interdisciplinary platform to break the barriers between the graduate students of different subjects of agricultural and allied sciences for their scientific and professional skills developments. The GRC performs activities under the umbrella of Directorate of Graduate Studies and emphasizes on four major sections:

- Postgraduate research skills development
- Scientific/community seminars
- Leadership and interpersonal skills development
- Annual graduate research day with a slogan to "make your research visible"

1.4.1 AIMS

The program aims to enhance the quality of graduate training to make young researchers effective intellectuals and growing leaders to cope with challenges of the agriculture market in the country and around the world.

1.4.2 FUNCTIONS

- Graduate Resource Center activities are held every Wednesday at 9:40 a.m. in seminar Hall of the University or via online platforms like Zoom.
- Membership and participation of all PhD scholars at MNSUAM is compulsory, while all interested master or undergraduate students can participate voluntarily.
- All faculty members and scientists from South Punjab Agriculture Forum can contribute and participate voluntarily.
- The Year 2023 was rightly utilized by GRC to develop the post graduates skills and to make them able to cope with current scientific scenario and also providing them effective systems and leadership for professional learning. More than 2000 persons attended the sessions across the year.

1.4.3 ACTIVITIES OF GRADUATE RESOURCE CENTER

Ph.D. Synopsis Defense

Ph.D. Synopsis Defense	**Enhancing Livestock Management and Knowledge Transfer Through an LLM-Based Farmer Advisory Framework.** Mr. M, Atif Noor (2023-uam-3706), Ph.D. Computer Science	15-07-2025
Ph.D. Synopsis Defense	**Deep Learning Framework for SNP-Based Genomic Prediction in Wheat Using Hybrid Feature Scoring and Trait-Aware Augmentation** Mr. Israr Hussain (2023-UAM-3703), Ph.D. Computer Science	28-07-2025
Ph.D. Synopsis Defense	**Explainable Artificial Intelligence for Phenotype Prediction of Cotton Crop Using Multidimensional Data.** Ms. Javeria Jabeen (2023-UAM-3702), Ph.D. Computer Science	28-07-2025

Ph.D. Synopsis Defense	**Multi-Layer Deep Learning Model for Scalable Efficacy Enhancement Using Adaptive Neural Network Architecture.** Mr. Qamar Atta ul Haq (2023-UAM-3704), Ph.D. Computer Science	29-07-2025
Ph.D. Synopsis Defense	**Off-Net LoRaWAN Radio Frequency-Induced Multi-Node Sensing for Rural Smart Devices through Mobile Application Communication.** Mr. Attique ur Rehman (2018-UAM-965), Ph.D. Computer Science	29-07-2025
Ph.D. Synopsis Defense	**Evaluating Potassium Dose and Soilless Cultivation Systems for Cherry Tomato Yield and Quality under Partially Controlled Greenhouse.** Mr. Atyab Amjad (2024-UAM-3711), Ph.D. Horticulture	31-12-2025
Ph.D. Synopsis Defense	**Evaluating the Role of Tree Nutrition and Pruning to Manage Jelly Seed Disorder in Mango (Mangifera Indica L.) cv. Samar Bahisht Chaunsa.** Mr. Muhammad Iqbal (2024-UAM-3710), Ph.D. Horticulture	06-01-2026
Ph.D. Synopsis Defense	**Steps toward Sustainable Cultivation of Mango Small Tree System in Punjab, Pakistan.** Mr. Riaz Hussain (2024-UAM-3709), Ph.D. Horticulture	07-01-2026
Ph.D. Synopsis Defense	**PGPR Assisted Phytoremediation of Pb and Cd Using Giant Miscanthus (Miscanthus × Giganteus) under Wastewater Irrigated Soils.** Mr. Ghulam Murtaza (2018-uam-241), Ph.D Soil Sciences	16-01-2026
Ph.D. Synopsis Defense	**Enhanced-Efficiency Biostimulant–Polymer Coated Urea for Improving Nitrogen Use Efficiency, Growth, and Yield of Wheat and Cotton on Alkaline-Calcareous Soils** Mr. Muti Ul Hannan (2013-uam-48), Ph.D Soil Sciences	23-01-2026
Ph.D. Synopsis Defense	**Composite Pectin-Based Coatings for Postharvest Nutrition and Quality Management of Selected Fruits and Vegetables.** Ms. Muqaddas Raza (2017-UAM-138), Ph.D Horticulture	27-01-2026
Ph.D. Synopsis Defense	**Detection, Molecular Analysis, and Biocontrol of Aeromonas hydrophila in Labeo rohita Aquaculture in Punjab, Pakistan.** Ms. Uzma Batool (2023-uam-3714), Ph.D Zoology	27-01-2026
Ph.D. Synopsis Defense	**Climate-smart agriculture: implications for livelihood and dietary diversity in south Punjab.** Mr. Mohsin Raza (2023-uam-3701), Ph.D. A.E	18-02-2026
Ph.D. Synopsis Defense	**Extraction, microencapsulation and in vivo evaluation of hepatoprotective compounds from Syzygium cumini seeds.** Ms. Shahrina Shakir (2014-uam-14), Ph.D. FST	02-03-2026

Ph.D. Synopsis Defense	**Evaluation of Green Synthesized Zinc Oxide Nanoparticles as Anticoccidial, Immunomodulatory and Growth Promoting Agents in Broilers.** Ms. Fouzia Tabassum (2023-uam-3717), Ph.D. Zoology	05-03-2026
Ph.D. Synopsis Defense	**Climate Variability and Resilience in Mango Value Chain in Pakistan.** Mr. Hafiz Bilal Ahmed Sabri (2023-uam-3701), Ph.D. AE	13-03-2026
Ph.D. Synopsis Defense	**Indigenous PGPR Consortia Against Common Scab of Potato.** Mr. Subhan Ali (2021-uam-2808), Ph.D. Plant Pathology	15-04-2026
Ph.D. Synopsis Defense	**Extraction and Utilization of Microalgae Peptides for the Development of Therapeutic Drink.** Mr. Muhammad Usama Mubarak (2020-uam-2756), Ph.D. FST	16-04-2026
Ph.D. Synopsis Defense	**Research Title: Multimodal Spatiotemporal Forecasting of Cotton Insect Pests in South Punjab Using Explainable AI** Mr. Zahid Hussain (2023-UAM-3707), Ph.D. CS	30-04-2026
Ph.D. Synopsis Defense	**Combined Effect of Acetic Acid and Ascorbic Acid Supplementation on Growth Performance and Immunity in Rohu (Labeo rohita).** Ms. Nargis Naheed (2023-uam-3720), Ph.D Zoology	14-05-2026
Ph.D. Synopsis Defense	**Dose-Dependent Effects of Dietary Moringa oleifera on Growth and Health-Related Parameters of Labeo rohita.** Ms. Shaheen Kousar (2023-uam-3715), Ph.D Zoology	11-06-2026
Ph.D. Synopsis Defense	**Comparative Assessment of Quality control parameters and associated risk factors in freshwater fish species Labeo rohita in southern Punjab, Pakistan** Mr. Asher Azeem (2023-uam-3718), Ph.D Zoology	17-06-2026
Ph.D. Synopsis Defense	**Prediction of Plant Gene Expression from Chromatin features and DNA Sequence: A Multimodal Deep Learning Framework** Mr. Muhammad Saleem (2023-UAM-3708), Ph.D CS	18-06-2026
Ph.D. Synopsis Defense	**Developing managed insect pollination system for hybrid vegetable production.** Mr. Ahmad Ibrahim Jalali (2017-uam-103), Ph.D Entomology	22-06-2026
Ph.D. Synopsis Defense	**Optimizing Conventional and Unmanned Aerial Vehicle (UAV) based Spraying Systems for Efficient Whitefly Management in Cotton.** Mr. Muhammad Ameer (2025-uam-3702), Ph.D. Entomology	23-06-2026
Ph.D. Synopsis Defense	**Environmental impacts of deforestation on paper consumption using deep learning models.** Ms. Fatima Bukhari (2024-UAM-3708), Ph.D. CS	23-06-2026

Ph.D. Synopsis Defense	**Phytometabolites and Entomopathogenic Fungi: Toxicity and Transgenerational Responses in Aedes aegypti.** Ms. Hafsah Ghaffar (2013-uam-81), Ph.D Entomology	24-06-2026
Ph.D. Synopsis Defense	**Effect of Stocking Density and Carbon Regimes on Nile Tilapia (Oreochormis niloticus) Survival under Aeromonas hydrophila Challenge in Biofloc System.** Ms. Sayda Umi Farwa (2023-uam-3713), Ph.D Zoology	24-06-2026
Ph.D. Synopsis Defense	**Pollination Management for Improved Hybrid Sunflower Seed Production** Danyal Haider Khan (2016-uam-119), Ph.D. Entomology	21-07-2026

Pre-Ph.D. Thesis Defense

Pre- Ph.D. Thesis Defense	**Synbiotic Encapsulation of Probiotic Bacteria for Food Applications.** Mr. Hammad Naeem (2021-uam-3701), Ph.D. FST	18-07-2025
Pre- Ph.D. Thesis Defense	**Identifying the Role of GhCNGC gene(s) to Enhance the Heat Tolerance in Upland Cotton.** Ms. Hira Maryam (2012-UAM-19), Ph.D. PBG	14-01-2026
Pre- Ph.D. Thesis Defense	**Exploring the Nutritional and Functional Properties of Legume based Meat Analogues.** Ms. Ushna Momal (2016-UAM-166), Ph.D. FST	19-01-2026
Pre- Ph.D. Thesis Defense	**Genetic evaluation of Gossypium hirsutum L. for thermotolerance and yield related traits** Mr. Muhammad Asim Bhutta (2022-uam-3704), Ph.D. PBG	11-06-2026
Pre- Ph.D. Thesis Defense	**Anti-diabetic Potential of Flavonoids from the Citrus Peels.** Ms. Areeba Usman (2022-uam-3712), Ph.D. HND	18-06-2026

Final Thesis Defense

Ph.D. Thesis Defense	**Geneteic Diversity and SpatioTemporal Dynamics of Major RNA Viruses Infecting Onion and Garlic Crops in Punjab-Pakistan** Mr. Muhamamd Zubair Hamza (2019-uam-903), Ph.D. Plant Pathology	20-08-2025
Ph.D. Thesis Defense	**Agronomic Biofortification of Selenium and Interrelation with Nitrogen Metabolism in Wheat (Triticum aestivum L.).** Mr. Muhammad Shoaib Ismail (2018-uam-1011), Ph.D. Agronomy	11-12-2025
Ph.D. Thesis Defense	**Shelf Stability of Dehydrated Mango Slices.** Mr. Khizar Hayat (2014-uam-174), Ph.D. Food Science and Technology	23-01-2026

Ph.D. Thesis Defense	**Monitoring and Biological Risk Assessment of Atrazine in Maize Food Chain; Field to Fork.** Mr. Adnan Fareed (2017-uam-855), Ph.D. Scholar, Soil Sciences	13-02-2026
Ph.D. Thesis Defense	**Role of Potassium in Productivity and Quality of Capsicum under Soilless Cultivation Systems in Partially Controlled Greenhouse.** Mr. Ali Asad Bahar (2014-UAM-93), Ph.D. Horticulture	19-02-2026
Ph.D. Thesis Defense	**Improving Soybean Heat Tolerance through Biostimulant and Nutrients Application in Maize-Soybean Intercropping System.** Mr. Sohail Irshad (2020-UAM-3701), Ph.D. Agronomy	20-02-2026
Ph.D. Thesis Defense	**Hypolipideamic Potential and Food Application of Olive Oil.** Ms. Aliza Batool (2019-uam-913), Ph.D. Food Science and Technology	05-06-2026
Ph.D. Thesis Defense	**Determination of Insecticide Resistance in Dusky Cotton Bug.** Mr. Junaid Ali khan (2018-uam-1015), Ph.D. Entomology	16-06-2026

Seminar/Webinars (National)

Seminar	**"Post-2022 Flood Scenario, Insights & Way Forward" Event** Department of Agronomy, MNSUAM	31-07-2025
Seminar	**Agribusiness Seminar** Prof. Dr. Zulfiqar Ali (chief guest); Dr. Khalid Aziz (speaker)	23-08-2025
Seminar	**Awareness Seminar on Global Iodine Deficiency Prevention Day** Dept. of Human Nutrition & Dietetics; Prof. Dr. Asif Ali (chair)	02-10-2025
Seminar	**Breast Cancer Awareness Seminar 2025** Dr. Junaid (welcome); Taarey Zameen Par Trust (speakers)	07-10-2025
Seminar	**World Food Day Seminar & Academic Competitions** Faculty of Food & Home Sciences; Prof. Dr. Asif Ali (chief guest)	16-10-2025
Seminar	**Smog Awareness Seminar & Walk ("Clean Air, Safe Future")** Prof. Dr. Tanveer-ul-Haq (chair)	04-11-2025
Seminar	**Seminar on Developing Emotional Intelligence** Hostel Administration; Ms. Mehr Khudija & Mr. Muhammad Tahir (speakers)	03-12-2025
Seminar	**Seminar "Cyberspace and Extremism: Building a Resilient Pakistan"** Office of the Senior Tutor; Prof. Dr. Asif Ali (T.I.)	12-12-2025

Seminar	**Seminar on Counter Narcotics Awareness** Directorate of Student Affairs & Senior Tutor; Col (R) Waqar Azam (speaker)	18-02-2026
Seminar	**Seminar "Water and Industrial Equity" & WRDC Inaugural Meeting** MNSUAM	26-03-2026
Seminar	**Seminar on Environmental Awareness & Tree Importance** Plant for Life Society & Green Youth Movement Club	26-04-2026
Seminar	**Medical Seminar on Joint Diseases** Prof. Dr. Khalil Ahmad Gill (guest speaker)	28-04-2026
Seminar	**Awareness Seminar "Vaccines for Every Generation" (World Immunization Week)** MNSUAM	29-04-2026
Webinar	**Webinar on Sustainable Development Goals & Youth** Dept. of Soil & Environmental Sciences; Dr. Ahmed Mahmood, NUST (keynote)	07-05-2026

Seminar/Webinar (International)

Seminar	**Session on Citizen Science in Pollination** Ms. Becky Griffin, University of Georgia, USA (guest)	07-08-2025
Seminar	**World Soil Day 2025 ("Healthy Soils, Healthy Cities")** Dept. of Soil & Environmental Sciences; Prof. Dr. Asif Ali (T.I.)	05-12-2025
Seminar	**International Seminar on Interdisciplinary & Intersectional Sustainability Research** UNESCO Chair, MNSUAM; Dr. Sarah Holz, Humboldt University Berlin (keynote)	09-02-2026
Seminar	**Session on Drone-Based Agricultural Solutions** Mr. Rizwan Asif (intl expert)	18-03-2026
Seminar	**Seminar on Sustainable Agriculture & Global Cotton Standards** Dr. Shafiq Ahmad, BCI Pakistan (chief guest)	10-05-2026
Seminar	**World Migratory Bird Day (Seminar & Plantation Drive)** MNSUAM	15-05-2026

Seminar	**Seminar on Electronic Waste Management** Dept. of Soil & Environmental Sciences; Prof. Tahir Imran Qureshi (World Bank, chief guest)	19-05-2026
Seminar	**World Environment Day 2026** Dr. Wazir, Chairman, Dept. of Soil & Environmental Sciences	05-06-2026
Seminar	**Anti-Drug Awareness Seminar (International Day against Drug Abuse & Illicit Trafficking)** Directorate of Student Affairs, MNSUAM	19-06-2026

Awareness sessions

Seminar	**International Women Day Celebrations** Directorate of Student Affairs, MNSUAM	31-10-2025
Seminar	**Empowering young people to create the families they want in a fair and hopeful world** Dr. Wazir, Chairman, Dept. of Soil & Environmental Sciences	15-09-2025
Awareness Seminar	**3-day ToT on Menstrual Hygiene organized with Islamic Relief Pakistan for IR staff and other key stakeholders.** Public Health Society; Dr. Adnan (coordinator)	14-01-2026 15-01-2026 16-01-2026
Awareness Walk	**Awareness Walk on World Health Day** Public Health Society; Dr. Adnan (coordinator)	07-04-2026
Seminar	**Mock Interview Session for graduate students** Directorate of Student Affairs, MNSUAM	16-06-2026
Awareness Event	**International Mother Earth Day 2026** MNSUAM	22-04-2026
Awareness / Competition	**International Day of Plant Health (Walk & Poster Competition)** Dept. of Plant Pathology; Dr. Munawwar Raza Kazmi (chief guest)	14-05-2026
Seminar / Awareness	**World Environment Day 2026** Dr. Wazir, Chairman, Dept. of Soil & Environmental Sciences	05-06-2026
Seminar / Awareness	**Anti-Drug Awareness Seminar (International Day against Drug Abuse & Illicit Trafficking)** Directorate of Student Affairs, MNSUAM	19-06-2026

Seminar / Walk	**Smog Awareness Seminar & Walk ("Clean Air, Safe Future")** Prof. Dr. Tanveer-ul-Haq (chair)	04-11-2025
Awareness Camp	**Awareness Camp "Embrace Wellness: Weight Management"** MNSUAM	07-01-2026
Cultural / Awareness	**Kashmir Solidarity Day (Skit, Declamation, Plantation & Walk)** MADS, Debating Club, Plant for Life Society, YPDC; Prof. Dr. Asif Ali (T.I.)	05-02-2026

1.4 ACADEMIC CALENDAR (2025-26)

Sr. No.	Particulars/ Activity	Date
A	Enrollment Winter Semester 2025-2026	01-09-2025 to 08-09-2025
1.	Commencement of Classes	08-09-2025
2.	Mid-Term Examination	10-11-2025
3.	Final Term Examination	12-01-2026
4.	Break	24-01-2026 to 01-02-2026
B	Enrollment Spring Semester 2026	02-02-2026 to 06-02-2026
1.	Commencement of Classes	02-02-2026
2.	Mid-Term Examination	30-03-2026
3.	Final Term Examination	01-06-2026
4.	Break	20-06-2026 to 28-06-2026
C	Enrollment Summer Session 2026	29-06-2026 to 03-07-2026
1.	Commencement of Classes	29-06-2026
2.	Mid-Term Examination	27-07-2026
3.	Final Term Examination	24-08-2026
4.	Break	29-08-2026 to 06-09-2026

1.6 ACADEMIC ACHIEVEMENTS

- FVAS successfully obtained NOC from Higher Education Commission of halted postgraduate programs including Ph.D Zoology and MS Public Health programs.
- Furthermore, Curriculum of various undergraduate schemes has been revised as per HEC New Undergraduate Schemes have been was adapted in all undergraduate programs of FVAS.
- Approval for revision of scheme of studies for B.Sc. Hons. Home Economic from Board of Studies, Board of Faculty and Academic Council.
- Approval for offer of BS. Textile and Fashion Design from Board of Studies, Board of Faculty and Academic Council, and being offered from Winter 2026
- The Faculty of Social Sciences got approval from Syndicate to start PhD Agribusiness Management as a new postgraduate program
- The Faculty of Social Sciences got approval from Syndicate to start BS Economics with Data Science as a new undergraduate program
- Initiation of Ph.D. Climate Change was discussed in 1st departmental Board of studies
- Approval of revision of the scheme of studies for the MBA and EMBA programs from the Board Studies, Board of Faculty, and Academic Council
- Successfully launched the Drone Pilot Certification Program to promote precision agriculture and digital agriculture skills.
- Conducted the Drone Pilot Certification Program (Batch-I) and Super Seeder Demonstration in collaboration with the Agricultural Mechanization Research Institute (AMRI).
- Delivered professional short courses in Computer Applications, Graphic Designing, Spoken English, Digital Marketing & E-Commerce, Video Editing, and Drone Pilot Training.
- 437 participants trained through professional development programmes conducted in collaboration with NAVTTC and industry partners.
- Generated approximately PKR 1.47 million through professional short courses.
- Successfully implemented the Youth-Led Actions (YLA) Programme in collaboration with the British Council, Pakistan Youth Leadership Initiative (PYLI), WaterAid, and Dasra Foundation, training 200 postgraduate youth across five batches on youth leadership, climate change adaptation, water conservation, renewable energy, environmental sustainability, tree plantation, WASH initiatives, and community engagement.
- Prof. Dr. Irfan Ahmad Baig and team completed the project, “Groundwater Modelling and Information Products for Khanewal Area. Amount: PKR 3.0 million | Funding Agency: FAO | Team Leader: Prof. Dr. Irfan Ahmad Baig
- Successfully completed the Prime Minister Youth Skills Development Programme (Batch-II) funded by the National Vocational and Technical Training Commission (NAVTTC), worth approximately PKR 12 million.

- Facilitated industry visits and internship placements for students.
- Published 31 research papers in national and international impact-factor journals and a book chapter in springer.
- Organized a workshop titled “Regional Round of See Pakistan Multan” on July 10, 2025, at MNS-University of Agriculture Multan
- Organized the event titled “Inauguration Ceremony of Mango Dehydration Facility” on September 09, 2025, at MNS-University of Agriculture Multan
- Organized an awareness workshop on branding and packaging titled “From Farm Gate to Global Plate” on November 11, 2025, at MNS-University of Agriculture Multan
- The Faculty of Social Sciences organized ASF Venture Spark Business Plan Competition 2025-26
- The Faculty of Social Sciences organized 3rd International Conference on Food Security and Value Chain Systems: Innovative Pathways for Sustainability and Resilience, 11-12 February 2026.
- Organized a workshop titled "Sustainable Organizational Innovations for Smallholder Farmers in Punjab" from 22-27 March 2026 at MNS-University of Agriculture, Multan
- Organized the International Conference on Bee Pollination and Conservation 2025.
- Organized an International Webinar on Citizen Science for All.
- Organized a Consultative Session on Insect Pest Management in South Punjab.
- Hosted official visits of the Turkish Delegation (TIKA) and the High Commissioner of Bangladesh to strengthen international collaboration.
- 17 Research proposals submitted worth around PKR 102 million to national and international funding agencies
- CM Internship and Laptop Distribution Ceremony
- Pakistan Independence Day Celebrations
- Organized Annual Education Expo 2025 in Multan on 23rd July 2025
- Wheelchair Distribution among Flood Affected
- Drone Pilot Certification Program
- Youth-Led Climate Awareness and Water Conservation Campaigns
- Tree Plantation and Environmental Awareness Activities
- Secured X1 category in B.Sc. (Hons.) Agriculture (Agronomy) program as Accredited by NAEAC
- All ongoing postgraduate programs have attained NOC from HEC
- All ongoing B.Sc. (Hons.) Agriculture programs have been accredited by National Agriculture Education Accreditation Council (NAEAC) with improved rating from X1 to W3 category in B.Sc. (Hons.) Plant Breeding and Genetics and X3 to X1 in B.Sc. (Hons.) Biotechnology Program
- HEC Undergraduate Education Policy v. 1.1 has been opted at university level for all ongoing and future undergraduate degree programs. Scheme of studies have been thoroughly revised in alignment with the aforementioned policy and have been approved from statuary bodies after due deliberation.

- New Associate Degree Program in Seed Production of Crop Plants has been launched.
- Initiation of Ph.D. Climate Change was discussed in 1st departmental board of studies.
- The Department of Entomology has recently been awarded W-category status after successfully fulfilling all quality standards for teaching and research set by the National Agriculture Education Accreditation Council (NAEAC) of the Higher Education Commission (HEC), Islamabad, Pakistan.
- International agreement of cooperation (AoC) between Southwest University of Science and Technology, Mianyang, Sichuan, China and MNS-University of Agriculture Multan.
- The Department of Soil & Environmental Sciences continued its tradition of academic excellence during 2025–26 through outstanding achievements in research, innovation, postgraduate education, and community engagement. Major accomplishments include:
- Published 46 research papers in nationally and internationally recognized peer-reviewed journals, including 31 W/X-category publications, with a cumulative Impact Factor of 106.5.
- Published 22 book chapters, one edited international book, two technical manuals, and 15 popular articles, reflecting the Department's strong contribution to scientific knowledge dissemination.
- Submitted 23 national and international research proposals worth Rs. 348 million, with six projects shortlisted in PARB, two qualified for the final evaluation, and one industrial research project worth Rs. 37.9 million.
- Successful implementation of ongoing research projects addressing the issues of agricultural sustainability, soil health, salinity management, biochar enrichment, climate-smart agriculture, and innovative fertilizer technologies.
- Development of technologies, including Humic Acid-Coated Urea, Polymer-Coated Fertilizers, Biochar-based Soil Amendments, and Miscanthus as a Pulp and Bioenergy Crop, in collaboration with industry partners
- Establishment of the Mobile Soil & Water Testing Laboratory in collaboration with EMC Sciences - Multan, providing scientific advisory services to more than 2,500 farmers, thereby strengthening technology transfer and community outreach.
- Organization of the National Symposium on Soil Sustainability, professional training workshops, seminars, and industrial and stakeholder interaction sessions with Engro Fertilizers to promote research collaboration and capacity building.
- Outstanding alumni achievements, with graduates securing fully funded international scholarships (CSC, Erasmus Mundus, ANSO, Wageningen University, and other prestigious programs) for higher studies in China, Germany, the Netherlands, Thailand, and Europe, reflecting the Department's academic excellence and global recognition.

1.7 FOREIGN ACADEMIC LINKAGES

1.7.1 FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

- Australian Centre for International Agricultural Research (ACIAR)
- University of Sydney, Australia
- University of Kassel Germany
- Tashkent State Agrarian University, Uzbekistan.
- Huazhong Agricultural University, Wuhan, China
- Wheat Genetics and Genomics Center, China Agricultural University (CAU)
- Jinghua Seed Industry China
- Sichuan Provincial Government, China
- Institute of Biology, CAAS Chengdu, China
- BGI Genomics Co., Ltd. China
- Southern Research institute Agriculture republic of Uzbekistan
- Gebze Technical University, Türkiye
- College of Agriculture and Biotechnology, Zhejiang University, China
- School of Environmental Science and Engineering, Shandong University, China
- Ghazi University Ankara, Türkiye
- Biotechnology Research Institute Chinese Sciences of Agricultural Science Beijing, China
- University of Bonn, Germany
- University of Kassel, Germany
- Institute of Urban Agriculture, Chinese Academy of Agriculture Sciences (CAAS), Sichuan, China
- The Department of Entomology has strengthened its global academic and research network through collaborations with internationally recognized universities and research organizations across Australia, Asia, Europe, the Middle East, and North America. Key linkages include Agriculture Victoria Research,
- The Chinese Academy of Sciences
- Okinawa Institute of Science and Technology,
- Imperial College London,
- The Universities of Edinburgh, Georgia, Kentucky, Tennessee, Queensland and California–Davis,
- Swansea University
- Colorado State University
- Washington State University
- Arizona State University
- Texas State University
- Sultan Qaboos University
- Taif University
- Universiti Sains Malaysia, Université de Liège,
- Sakarya University of Applied Sciences
- Niğde Ömer Halisdemir University
- The King Faisal University
- University of South-Eastern Norway

1.7 FOREIGN ACADEMIC LINKAGES

1.7.1 FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

- Tarim University in Xinjiang, China
- CIHEAM Bari - Mediterranean Agronomic Institute of Bari, Italy
- Australian Centre for International Agricultural Research (ACIAR)
- Southwest University of Science and Technology, Mianyang, Sichuan, China
- Shanghai Academy of Agricultural Sciences, China
- Northwest Agriculture and Forestry University China
- Shanghai Academy of Agricultural Sciences (SAAS)
- University of Chinese Academy of Sciences (UCAS)
- University of Science and Technology of China (USTC)
- Northeast Normal University
- Xi'an Jiaotong University
- Trier University (Germany)
- Wageningen University & Research (The Netherlands)
- King Mongkut's University of Technology Thonburi (Thailand).
- Maintained active research collaborations with internationally recognized scientists, including Prof. Dr. Bilal Yousaf, Prof. Dr. Guijian Liu, Prof. Dr. Abdul Hakeem, Prof. Dr. Ren Maozhi, Dr. Adnan Shahid, and Prof. Munir Jamil Rusan.
- Promoted faculty capacity building through international training programs, collaborative research, overseas networking, and scientific exchange.
- Facilitated international academic mobility, with more than 10 graduates securing fully funded international scholarships, including CSC, ANSO, Erasmus Mundus, Erasmus+, and Wageningen University scholarships.
- Graduates are currently pursuing higher education and research at prestigious universities in China, Germany, the Netherlands, Thailand, and Europe, enhancing the Department's international recognition.
- Expanded opportunities for faculty exchange, student mobility, and international scientific collaboration contribute to the Department's vision of becoming a regional center of excellence in Soil and Environmental Sciences.

1.7.2 FACULTY OF SOCIAL SCIENCES AND HUMANITIES

- Hosted a Delegation from China and the United States on 30-07-2025 to explore collaborative initiatives aimed at reviving cotton.
- Hosted a delegation from Turkish Universities from 17-24 November 2025 to participate in International Seminar on Food Security and Regional Cooperation and conducted training workshop on Perception, Communication and Decision Making
- Eberswalde University for Sustainable Development (HNEE) Germany
- University of Hildesheim, Germany
- The University of Queensland, Australia

- Huazhong Agriculture University, Wuhan, China
- University of Bonn, Germany
- University of Kassel, Germany
- Institute of Urban Agriculture, Chinese Academy of Agriculture Sciences (CAAS), Sichuan, China
- Bangladesh High Commission, Pakistan
- Turkish Cooperation and Coordination Agency (TIKA)

1.7.3 FACULTY OF VETERINARY AND ANIMAL SCIENCES

- MOU Signed Between Xinjiang Agriculture Vocational University China and FVAS MNS-University of Agriculture Multan to promote mutual collaboration in Research, launching of dual degree programs and teaching in future.
- Modern Animal Husbandry Academy Center was established at University in Collaboration with FVAS to strengthen China-Pak Research and teaching Collaboration.

1.7.4 FACULTY OF FOOD AND HOME SCIENCES

- Queensland Univeristy of Technology: Centre of Agriculture and Bioeconomy: Four days session to selected faculty

1.8 INSTITUTIONAL LINKAGES

- Wuhan University of Technology, Wuhan China
- Wuhan University of Science and Technology, Wuhan China
- Bahauddin Zakariya University, Multan
- NFC Institute of Engineering and Technology, Multan
- COMSATS Institute of Information Technology, Vehari Campus
- Islamia University, Bahawalpur
- University of Education, Multan
- Air University, Multan Campus
- NCBA&E Multan Campus
- Future Water and FAO collaboration.
- International research collaboration under the 2nd Joint Research Projects between PSF and NSF, Sri Lanka.
- AARI - Ayub Agricultural Research Institute, Faisalabad
- CCRI - Central Cotton Research Institute, Multan
- Doaba Foundation

- UAF – University of Agriculture, Faisalabad
- FAO – Food and Agriculture Organization (of the United Nations)
- CABI – Centre for Agriculture and Bioscience International
- GIZ – Deutsche Gesellschaft für Internationale Zusammenarbeit (German Corporation for International Cooperation)
- WWF-Pakistan – Worldwide Fund Pakistan
- Guard Agriculture Research & Services Pvt. Limited Pakistan
- Nestlé Pakistan
- Mehmood Group, Pakistan (MG)
- Indus Sugar Mills Limited
- Maxim Agri. Pvt. Limited
- SNGPL – Sui Northern Gas Pipelines Limited
- MTJF – Molana Tariq Jamil Foundation
- Bukhari Farms (18 Hazari, Jhang)
- SAWIE – Sustainable Agriculture Water & Intelligent Ecosystem
- FDO – Farmers Development Organization
- PMD – Pakistan Meteorological Department
- GCISC - Global Change Impact Studies Centre
- National Seed Development and Regulatory Authority Islamabad
- Federal Seed Certification and Registration Department
- Horticultural Research Station Bhawalpur
- Citrus Research Institute Sarghoda
- Barani Agricultural Research Institute Chakwal
- Fair Field Private Limited Multan
- Punjab Higher Education Commission (PHEC)
- Soil Science Society of Pakistan (SSSP)
- Environmental Protection Agency (EPA), Punjab
- Commissioner Office, Multan Division
- Nice International Crop Excellence (Pvt.) Ltd.
- Solex Chemicals
- EMC Sciences
- Shanghai Academy of Agricultural Sciences (SAAS), China
- National and international universities and research organizations.
- The Department of Soil and Environmental Sciences has established strong linkages with national and international universities, research organizations, government agencies, and industry to strengthen teaching, research, innovation, and community engagement. Major achievements include:
- Established collaborative linkages with national and international universities for joint research, postgraduate supervision, faculty exchange, and scientific publications.
- Strengthened partnerships with PHEC, Soil Science Society of Pakistan (SSSP), Environmental Protection Agency (EPA), Punjab, and Commissioner Office Multan for research, training, environmental awareness, and community outreach.
- Developed strong university–industry collaborations with Nice International Crop Excellence (Pvt.) Ltd., Multan, Solex Chemicals, Multan, and EMC Sciences, Multan for contract research, product development, industrial trials, and technology commercialization.

- Conducted collaborative research on soil health, climate-smart agriculture, biochar, saline agriculture, sustainable nutrient management, and environmental sustainability.
- Established the Mobile Soil & Water Testing Laboratory, providing soil and water testing and advisory services to more than 2,500 farmers.
- Organized national symposiums, professional training workshops, seminars, industrial interaction sessions, and outreach programs in collaboration with partner organizations.
- Promoted student internships, industrial visits, technology demonstrations, and farmer advisory services through institutional partnerships.
- Expanded international collaboration through Shanghai Academy of Agricultural Sciences (SAAS), China, and other leading universities and research organizations.
- University of Agriculture Faisalabad
- GIFT University of Gujranwala
- MNS University of Engineering & Technology, Multan
- Urdu Federal University, Islamabad Campus
- National Vocational and Technical Training Commission (NAVTTC)
- Lahore University of Management Sciences (LUMS)
- AARI - Ayub Agricultural Research Institute, Faisalabad
- CCRI - Central Cotton Research Institute, Multan
- Doaba Foundation
- FAO – Food and Agriculture Organization (of the United Nations)
- CABI – Centre for Agriculture and Bioscience International
- GIZ – Deutsche Gesellschaft für Internationale Zusammenarbeit (German Corporation for International Cooperation)
- WWF-Pakistan – Worldwide Fund Pakistan
- SNGPL – Sui Northern Gas Pipelines Limited
- MTJF – Molana Tariq Jamil Foundation
- Bukhari Farms (18 Hazari, Jhang)
- SAWIE – Sustainable Agriculture Water & Intelligent Ecosystem
- FDO – Farmers Development Organization
- PMD – Pakistan Meteorological Department
- GCISC - Global Change Impact Studies Centre
- Al-Karam Farm Technologies

1.9 HONORS AND AWARDS

- 1st Position in Architecture Photography at Lyllpur Festival 2025
- 1st Position in Picture Story at Lyllpur Festival 2025
- 2nd Position in On-Spot Photography at Lyllpur Festival 2025
- 2nd Position in Thematic Photography at Lyllpur Festival 2025
- 1st Position in Product Photography at 5th International Student Conference and Expo 2025 GC university Faisalaba
- Recognition of the Small Tractor Functional Propulsion System as the winner of the Agriculture & Food Category at the World Startup Championship–SEE Pakistan 2025

- Completion of a two-week Drone Pilot Certification Programme (Batch II), demonstrating proficiency in safe and effective drone flight operations
- 1st Position in Architecture Photography at 5th International Student Conference and Expo 2025 GC university Faisalabad
- 2nd Position in Create Portrait Photography at 5th International Student Conference and Expo 2025 GC university Faisalabad
- 3rd Position in Product Photography at 5th International Student Conference and Expo 2025 GC university Faisalabad
- 1st Position in “A Non-Invasive Diabetes Monitoring System for Data-Driven Agriculture and Food Science Research” at NCBA&E (Alhamra University) Multan, 2026
- 1st Position in Photography at Lyllpur Festival 2026
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy) is a member of production plan of different crops at Punjab level.
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), Member zonal technical committee of South Punjab.
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), member of Annual Research Program of Adaptive Research Farms, Punjab
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), member board of studies, University of Sargodha, Sargodha.
- Dr. Hafiz Mohkum Hammad organized a hands-on training workshop on "Software Applications for Research Data Analysis".
- Dr. M. Abu Bakr Siddique, Dr. Akash Fatima, Dr. Ali Sher, and Dr. Sehrish Ijaz have availed the
- Australian Awards fellowship funded by Department of Foreign Affairs and Trade (DFAT), Australia.
- Dr. Muqarab Ali from Department of Climate Change won the Integrity Icon Pakistan Award-2025 in strengthening Climate Resilience in South Punjab.
- Ms. Shafa Nayab won Meryl Williams Fellowship by Australian Centre for International Agricultural Research.
- The Department of Soil & Environmental Sciences has consistently demonstrated academic excellence through the outstanding achievements of its students and alumni at national and international levels. Major honors and awards include:
- AFS Venture Spark 2025 – Idea Winner for an innovative agricultural technology developed by a departmental student.
- Several graduates secured fully funded international scholarships, including:
    - China Scholarship Council (CSC) Scholarships
    - ANSO Scholarship
    - Erasmus Mundus Scholarship
    - Erasmus+ Scholarship
    - Wageningen University Scholarship
    - King Mongkut's University of Technology Thonburi (Thailand) Scholarship
- Departmental graduates earned Silver Medals in M.Sc. (Hons.) programs and were admitted to prestigious universities in China, Germany, the Netherlands, Thailand, and Europe for postgraduate studies.
- Faculty members have published extensively in high-impact international journals, edited international books, secured competitive research funding, and established international research collaborations, enhancing the Department's national and international recognition

- 1st Position in "A Non-Invasive Diabetes Monitoring System for Data-Driven Agriculture and Food Science Research" at AFS Venture Spark 2026, MNS University of Agriculture Multan, 2026
- Meryl William Fellowship (Dec2025-July 2026), Dr. Ambreen
- Meryl William Fellowship (Dec2025-July 2026), Dr. Nighat
- Prof. Dr. Mubashir Mehdi secured a competitive AUD 5,000 award from ACIAR to participate in the NZARES Conference, held on 28-29 August 2025 in Nelson, New Zealand.
- Prof. Dr. Mubashir Mehdi was honored as a Mentor for the prestigious Meryl Williams Fellowship (MWF) under the Australian Centre for International Agricultural Research (ACIAR).
- Prof. Dr. Mubashir Mehdi serves as the Coordinator of the ACIAR South Asia Alumni Network
- Dr. Muqarrab Ali from Department of Climate Change won the Integrity Icon Pakistan Award-2025 in strengthening climate resilience in South Punjab.
- Mr. Abd-Ur-Rehman was awarded the China Scholarship Council (CSC) Scholarship to pursue a PhD at Huazhong Agricultural University, China.
- Mr. Bilal Ahsan was awarded the prestigious John Allwright Fellowship (JAF) by ACIAR to pursue a PhD at The University of Queensland, Australia.
- Ms. Benish Sarfraz was selected for the prestigious Meryl Williams Fellowship (MWF) under ACIAR.

1.10 GOOD PRACTICES IMPLEMENTED

- Successfully conducted External Examination of Final Year Projects on campus by following precautionary measures and given SoPs (21-07-2020 & 22-07-2020). Successfully launched and deployed university LMS (https://lms.mnsuam.net/)
- Successfully launched and deployed university Online Admission system (http://admission.mnsuam.edu.pk)
- All courses of 2nd and 4th semester have been uploaded on LMS and teachers are using this platform for effective teaching during the pandemic
- Successfully conducted Open Book Exams for BS(CS/IT) 6th and 8th semester and MS(CS)
- Frequently provide help, tutorials, and guidelines to whole faculty and students for using online systems.
- Members of ICT Club and IEEE are being trained to guide entry test applicants and help students in orientation sessions.
  - Class monitoring
  - Course file
  - Students attendance
  - Course contents monitoring
- Following Directorate of Academics, QEC and HEC guidelines in teaching and research
- Quality practices in delivering knowledge and education have been developed
- Improved delivery of lectures following guidelines of QEC
- Trainings and awareness seminars are conducted for Students and Faculty members
- Practiced two-way communication while delivering knowledge
- Capacity development in drone-based technology is relevant to agricultural engineering and precision agriculture.

CHAPTER
01 ACADEMIC ACTIVITIES

- Faculty Student Interaction
- Students counsling to join different societies and club in senior tutor office
- Two students are selected from Faculty of Food and Home Sciences for student council
- Adopted student-centered, case-based, and interactive teaching methodologies to enhance critical thinking and practical learning.
- Implemented an efficient academic monitoring system, including regular attendance tracking, lecture monitoring, and timely notification of lecture shortages.
- Ensured mandatory maintenance and periodic review of course files, with continuous curriculum updates in accordance with NBAEC/HEC guidelines.
- Submitted Course Review Reports (CRRs) to the Quality Enhancement Cell (QEC) for continuous quality improvement and academic excellence.
- Promoted the effective use of Learning Management Systems (LMS), Google Classroom, and other digital learning platforms to support blended and technology-enabled teaching.
- Organized professional certification, vocational training, workshops, seminars, field demonstrations, study visits, and capacity-building programs to strengthen students' technical and professional competencies.
- Fostered strong faculty-student interaction through academic mentoring, orientation programs for new students, and career counseling sessions.
- Strengthened university-industry-community linkages through collaborative research, outreach initiatives, internships, and stakeholder engagement.
- Promoted research, innovation, commercialization, and entrepreneurship by encouraging faculty and student participation in research projects, conferences, webinars, and knowledge exchange programs.
- Enhanced national and international academic collaborations through strategic partnerships, conferences, webinars, faculty exchange, and joint research initiatives.
- Student training through participation in outreach activities
- Ulfat Abbas was selected as general secretary in student council.
- Supervisor allocation as per student preference and research interest.
- Paid Internship of B.Sc. (Hons.) Agriculture, Agronomy (Major), 8th semester students preferably at progressive farms.
- Two Ph.D. students were selected as Scientific Officers through the Public Service Commission examination.
- Engagement of undergraduate students in research activities by attaching them with postgraduate students.
- Discussion and visual aids for teaching (Videos, Presentations and hands on activities).
- Module based teaching system
- Use of learning management system
- Orientation for newcomers
- Seminars/workshops/trainings
- Career counseling sessions
- Initiation of a Hands-on Practical and Teaching System for Entomology Students.

- Implementation of an Activity-Based Teaching System Using AI and Other Learning Technologies
- Class monitoring
- Curriculum revision regarding course objectives, contents and learning resources.
- Outcome based learning
- Blended/Hybrid teaching
- Use of learning management system
- Discussion and visual aids for Teaching (Videos, Presentations and hands on activities)
- Module based teaching system
- Maintenance of course files
- Lecture shortage
- Strengthening of teaching labs and field infrastructure
- Engagement of undergraduate students in research activities by attaching them with postgraduate students
- Alumni database and Annual Meetup
- Career counseling sessions for students
- International seminars/conferences/workshops
- Hands-on Training of faculty and students
- Internship of B.Sc. (Hons.) 8th Semester students at private sector companies and farms
- Annual thesis displays
- Orientation session for new comers
- Curriculum revision regarding course objectives, contents and learning resources
- Outcome based learning
- Introduction of Model Courses with advanced digital use
- Use of learning management system and SAP
- Discussion and visual aids for Teaching (videos, presentations and hands on activities)
- Student Allocation Policy
- Working Lab Policy
- Maintenance of course files
- Lecture shortage
- Curriculum revision regarding course objectives, contents and learning resources
- Outcome based learning
- Blended/Hybrid teaching
- Use of learning management system
- Discussion and visual aids for Teaching (Videos, Presentations and hands on activities)
- Module based teaching system
- Strengthening of teaching labs and field infrastructure
- Engagement of undergraduate students in research activities by attaching them with postgraduate students
- Alumni database and Annual Meetup
- Career counseling sessions for students
- International seminars/conferences/workshops
- Hands-on Training of faculty and students
- Internship of B.Sc. (Hons.) 8th Semester students at private sector companies and farms
- Annual thesis displays

- Established a Mobile Soil & Water Testing Laboratory to provide on-site soil and water analysis and advisory services to farmers.
- Strengthened university–industry collaboration through joint research, industrial trials, and product development with fertilizer and agricultural companies.
- Developed and evaluated innovative fertilizer technologies, including humic acid-coated urea, polymer-coated fertilizers, and biochar-based soil amendments.
- Promoted research commercialization through industry-supported research projects and technology validation.
- Organized the National Symposium on Soil Sustainability to promote scientific knowledge exchange.
- Conducted regular professional training workshops, seminars, and faculty development programs.
- Enhanced international collaboration through joint research, faculty networking, and postgraduate student supervision.
- Promoted student international mobility by facilitating fully funded overseas scholarships and research opportunities.
- Arranged industrial visits, educational tours, and internships to strengthen practical learning and industry exposure.
- Implemented community outreach programs through farmer advisory services, particularly for flood-affected farming communities.
- Conducted plantation drives and environmental awareness campaigns in collaboration with the Environmental Protection Agency (EPA).
- Promoted biochar production and climate-smart agriculture technologies for sustainable soil management.
- Established a strong research culture through competitive research proposal development, publications in high-impact journals, and interdisciplinary collaborations.
- Strengthened quality assurance and academic governance through active SAR implementation, accreditation activities, curriculum review, and continuous program improvement.
- Encouraged faculty capacity building through national and international training programs, AI and digital learning workshops, HEC-approved supervisor training, and overseas professional development opportunities.

RESEARCH AND DEVELOPMENT

Muhammad Nawaz Shareef
University of Agriculture
Multan



Chapter 2
Research and Development













Chapter 2
Research and Development













Chapter 2

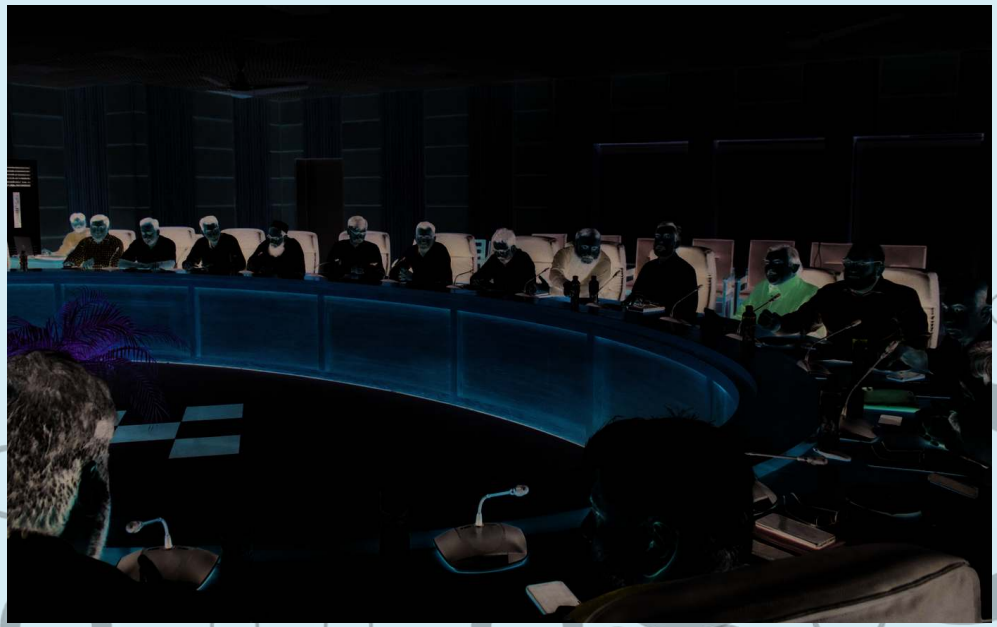
Research and Development











Chapter 2

Research and Development











CHAPTER 02

RESEARCH AND DEVELOPMENT

The Office of Research, Innovation and Commercialization (ORIC), established in 2015, promotes research, innovation, entrepreneurship, and commercialization at the University. In line with the University's vision, ORIC aligns research priorities with educational, social, industrial, and economic needs while strengthening industry-academia linkages. During 2025-26, ORIC facilitated faculty in submitting proposals to several prominent national and international funding agencies. Faculty secured 16 competitive research grants worth PKR 144.79 million, including PKR 74.53 million from international and PKR 70.26 million from national funding agencies. Additionally, 09 projects worth PKR 60.627 million were awarded by industry/private-sector organizations, along with consultancy assignments worth PKR 0.63 million. A total of 44 ongoing projects worth approximately PKR 995 million are in progress, while 18 research projects and industrial contracts worth PKR 110.92 million were successfully completed during the year. ORIC also facilitated the completion of two consultancy projects worth PKR 0.44 million and supported intellectual property protection and patent filing.

Faculty continued to publish research articles in reputable peer-reviewed journals and contribute chapters to books published by internationally recognized publishers. The University signed 36 Agreements of Cooperation (AOCs) with national and international organizations to strengthen research collaboration and external linkages. ORIC supported conferences, seminars, competitions, capacity-building programs, Central Laboratory System training, farmer advisory services, and industry consultancy initiatives. Major outreach and engagement activities included Mango Festivals, AFS Venture Spark 2026, and the International Conference on Sustainable Cotton Production.

The University has continued to participate in several national and international rankings, including the UI GreenMetric World University Rankings, the World University Rankings for Innovation (WURI), and the Times Higher Education (THE) Impact Rankings, maintaining its leading position among Pakistani agricultural universities for its green campus, sustainability practices, industrial application and social responsibility. The ORIC and Business Incubation & Agriculture Entrepreneurship Center (BIAEC) continued to be recognized among Pakistan's leading research and incubation offices.

2 PROJECTS

2.1 COMPLETED RESEARCH PROJECTS

2.1.1 INTERNATIONAL

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Developing Competitive and Inclusive Value Chains of Pulses in Pakistan	Prof. Dr. Mubashir Mehdi	7.20	ACIAR
2	Cultivation of Major New Varieties of Green and High efficiency Wheat	Dr. Shoaib Ur Rehman	2.99	Chengdu Institute of Biology, Chinese Academy of Sciences (China)

2.1.2 NATIONAL

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Thinking Beyond the Herbicide Efficacy Box: Appraising Herbicide Resistance, Leaching, Persistence and Carryover in Cotton-Wheat Cropping System	Dr. Amar Matloob	5.02	HEC-NRPU
2	Genetic Transformation of Potato (Solanum Tuberosum) with Lpomoea Orange Batatas (Lbor) for Enhanced Photosynthesis and Productivity	Dr. Ummara Waheed	5.30	HEC-NRPU
3	Production of Certified Mango Nursery for Small Tree System	Dr. Kashif Razzaq	6.50	HEC-NRPU
4	Supply Chain Management and Value Addition of Jaman Fruit (Syzigium cumini)	Dr. Samiullah	2.97	HEC-NRPU

5	Smart Traps for detection and monitoring of Flying Insect Pests (aka SmarTrapS)	Dr. Ayesha Hakim	28.66	HEC-TTSF
6	Using Artificial Intelligence from Illness to Eco-Wellness	Dr. Nadeem Iqbal	3.63	HEC PERIDOT
7	Development of Indigenous Low Distribution Manure Injection Machine for the enrichment of Soil Nutrients	Dr. Sarfraz Hashim	4.70	PSF-NSLP
8	Advancements in Saline Agriculture Related Interventions for Food Security	Prof. Dr. Tanveer Ul Haq	7.50	PARB
9	Enhanced Alfalfa Seed Production through Conservation of Native Insect Pollinators	Dr. Mudassir Ali	22.31	PARB
10	Biofortification of Fodders with Selenium to Improve Milk and Quality in Dairy Cattle	Dr. Abdul Ghaffar	3.00	PSF-NSLP
11	Development and Commercialization of Indigenous Technology for Production of Moringa Seed Oil ad Food Ingredient	Dr. Muhammad Shahbaz	4.05	PSF-CRP
12	Identification and Management of Unknown Blackening of Cotton Leaves Disease	Prof. Dr. M. Ashfaq	3.37	PARB

2.2 NEWLY AWARDED RESEARCH PROJECTS

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Innovations for Resilient Smallholder Production Systems in Punjab, Pakistan (SMALLPAK)	Prof. Dr. Irfan Ahmad Baig	65.00	Bundesministerium für Landwirtschaft, Ernährung und Heimat (BMLEH) Federal Ministry of Food, Agriculture and Homeland (Germany)

2	Multi-omics analysis of the construction and synergistic mechanism of biological control compounds of microbial community of greenhouse watermelons	Dr. Akhtar Hameed	6.50	Shanghai Academy Agricultural Sciences (China)
3	Bioactivity and Molecular responses of Musca domestica to plant extracts	Dr. M. Nadir Naqqash	3.028	King Faisal University (Sudia)
4	R&D-Driven Scale-Up Soilless Greenhouse Vegetable Farming through Public-Private Partnership.	Dr. Nazar Faried	28.59	PARB
5	Role of insect pollinators in cucurbit yield in high tunnels and development of sunflower and chili hybrids to enhance income of the farmers	Dr. Mudassar Ali	17.94	PARB
6	Bridging the Winter Fodder Gap: Evaluation and Development of Dual-Purpose Wheat lines for Sustainable Crop-Livestock Systems in Punjab	Dr. M Ali Sher	14.10	PARB
7	Food Application of Zein Protein as Functional Ingredient	Ms. Misbah Sharif	3.00	Endowment Fund Secretariat, University of Agriculture, Faisalabad (EFS-UAF)

2.3 ONGOING RESEARCH PROJECTS

2.3.1 INTERNATIONAL

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Accelerating Genetic Gain in Wheat through Hybrid Breeding in Bangladesh, Ethiopia and Pakistan	Prof. Dr. Asif Ali	77.12	ACIAR

2	Isolation of wheat cultivars with higher ferulic acid contents in grain	Dr. Shoaib Ur Rehman	3.06	Pinduoduo China Agricultural University Research Fund (China)
3	Bioactivity and Molecular responses of Musca domestica to plant extracts	Dr. M. Nadir Naqqash	3.028	King Faisal University (Sudia)
4	Innovations for Resilient Smallholder Production Systems in Punjab, Pakistan (SMALLPAK)	Prof Dr Irfan Ahmad Baig	65.00	Bundesministerium für Landwirtschaft, Ernährung und Heimat (BMLEH) Federal Ministry of Food, Agriculture and Homeland (Germany)
5	Multi-omics analysis of the construction and synergistic mechanism of biological control compounds of microbial community of greenhouse watermelons	Dr. Akhtar Hameed	6.5	Shanghai Academy Agricultural Sciences (China)

2.3.2 NATIONAL

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Investigating DNA Methylation Patterns Affecting Stay-Green and Root Interactions in Wheat for Climate Resilience	Dr. Muhammad Asaf Khan	9.61	HEC NRPU
2	Commercialization Chemosterilant Baits for the Management of Fruit Flies in Mango, Guava and Citrus	Prof. Dr. Shafqat Saeed	13.13	HEC TDF

3	Development of indigenous Seed coating and Pelleting Technologies for Improved Plantability and Crop Productivity	Dr. Muhammad Amir Bakhtavar	5.95	HEC TDF
4	Dehydration Technology for the Development of Natural Fruit Snacks and Powder	Prof. Dr. Umar Farooq	10.56	HEC TDF
5	Design and development of Integrated partial automatic Potato Digger	Dr. Umair Sultan	4.88	PSF
6	R&D-Driven Scale-Up Soilless Greenhouse Vegetable Farming through Public-Private Partnership.	Dr Nazar Faried	28.59	PARB
7	Role of insect pollinators in cucurbit yield in high tunnels and development of sunflower and chili hybrids to enhance income of the farmers	Dr Mudssar Ali	17.94	PARB
8	Bridging the Winter Fodder Gap: Evaluation and Development of Dual-Purpose Wheat lines for Sustainable Crop-Livestock Systems in Punjab	Dr. M Ali Sher	14.10	PARB
9	Development of Soybean in Pakistan to Reduce the Import Bills	Prof. Dr. Hammad Nadeem Tahir	17.95	PARB
10	Import of High Value Germplasm and Technologies of Elite Exotic Fruits, Vegetables and Medicinal Crops for Diversification and Sustainable Production in Punjab	Dr. Kashif Razzaq	4.88	PARB
11	Production of High-Yielding and Heat-Tolerant Hybrid Seed of Chili	Dr. M. Abu Bakar Saddique	11.03	PARB

12	Development and Commercialization of Tomato Developed by Inter and Intra-Specific Hybridization for Tolerant to Virus, Heat, Frost and Improvement in Shelf Life in Punjab	Dr. Tanveer Ahmad	3.93	PARB
13	Agronomic Interventions and Postharvest Value Addition to Promote Millets for Crop Diversification, Nutritional Security and Climate Smart Agriculture	Dr. Amar Matloob	29.98	PARB
14	Impact of Climate Change and Public Sector Research Investment on Total Factor Productivity	Prof. Dr. Nasir Nadeem	5.71	PARB
15	Developing of Indigenous Rotary Pruner for Canopy Management of Orchards	Dr. Umair Sultan	1.52	PARB
16	Enhancing Agricultural Diversity in Punjab through Introduction, Adaptation, and Promotion of Coffee, Cocoa, Cassava, and Tea	Dr. Tanveer Ahmad	47.19	PARB
17	National Crop Genomics and Speed Breeding Centre for Agriculture Sustainability	Prof. Dr. Hammad Nadeem Tahir	450.00	ADP
18	Standardization of Sugarcane Juice as a Value-Added Product	Dr. Ambreen Naz	13.35	SRDB
19	Food Application of Zein Protein as Functional Ingredient	Ms. Misbah Sharif	3.00	EFS-UAF

2.4 PUBLICATIONS

2.4.1 JOURNAL ARTICLES

Sr. No.	Paper	Authors' Name	Year	Journal	Volume	Page No
1	Carob (Ceratonia siliqua L): nutritional benefits and potential for food and feed applications	Laaraja S, Hussaina A, Hanane L, Batool SA, Ali M Q, Gorsi FI, Najam A, Asif A, Firdous N, Houmy N, Elfazazi K, and Salmaoui S	2025	Acta Scientiarum Polonorum Technologia Alimentaria	24	301-314
2	Moringa dried leaf extract as bio foliar fertilizer for revitalizing performance and nutritional status of soybean	Irshad S, A Matloob, K Mehmood, M Nawaz, S Iqbal, M A Wahid, R M Ikram, M A Ghafoor, M H Siddiqui, S Alamri and S Khan	2025	Scientific Reports	15	20431
3	Development and Characterization of Synbiotic Microbeads for Enhanced Viability of Probiotics for Food Applications	Hammad Naeem, Muhammad Shahbaz, Umar Farooq and Tanveer Ahmad	2025	Journal of Food Science	90	e70390
4	Effects of Indoxacarb on life history traits and population performance of the house fly, Musca domestica	MS Shahzad, N Sadiq, N Iqbal, HAA Khan, AD Abid and MN Naqqash	2025	Scientific Reports	15	23728
5	Ras association domain family member 1 (RASSF1): Molecular characteristics, clinical relevance and therapeutic interventions in cancer	Muhammad omer Iqbal and Imran Ahmad Khan	2025	Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease	1871(7)	167977

6	Extenuating lead toxicity in Chinese cabbage using organic acids: Comparative efficacy of acetic, citric, and tartaric acids	Rizwan Muhammad, Riaz Umair, Aziz Humera, Anum Wajiha, Murtaza Ghulam, Yong Jean and Chen Hong	2025	Ecotoxicology and Environmental Safety	300	118447
7	Drought resilience of wheat genotypes through microbial biostimulants under water deficit regimes	Ahmad S, Hammad HM, Rahman MH, Hussain MB and Sher MA	2025	Journal of Agronomy and Crop Science	221	21
8	Cataloguing of Alternate Host Plants of Whitefly (Bemisia tabaci gennadius) Associated with CLCuD and its Natural Enemies in the Punjab, Pakistan: A Management Strategy	Muhammad Afzal, Shafqat Saeed, Hasan Riaz, Muhammad Ishtiaq, Mirza Abdul Qayyum, Muhammad Imran, Habib Anwar and Amer Rasul	2025	Sarhad Journal of Agriculture	41	998-1022
9	Evaluation of nutritional qualities of Seitan meat analogue produce from wheat, barley and peas composite flour	Nida Muneer, Shabbir Ahmad, Muhammad Sibt-e-Abbas, Muhammad Asif Shehzad, Muhammad Usman, Sadaf Yaqoob, Aisha Umar, Nahaa M Alotaibi, Artur Banach, Lala Gurbanova and Soumya Ghosh	2025	European Food Research and Technology	251	3327-3337
10	Improved YOLOv8 Model for Phenotype Detection of Horticulture Seeding Growth Based on Digital Cousin	Yuhao Song, Lin Yang, Shuo Li, Xin Yang, Chi Ma, Yuan Huang, and Aamir Hussain	2025	Agriculture	15	1-221
11	Generative Adversarial Networks (GANs) in Modern Fashion Design: Creativity vs Automation	Aamir Hussain, Javaid Ahmad Malik, Aneela Rani, Naeem Aslam and Abdul Majid Soomro	2025	Southern Journal of Arts & Humanities	3	45-56

12	Securing Rural Food Security During COVID-19 in Pakistan: The Role of Social Support Programs	Mohsin Raza, Umar Ijaz Ahmed, Sami Ullah, Irfan Ahmad Baig, Zafar Iqbal, Matin Gul, and Choudary Ihtasham Ali	2025	International Journal of Social Sciences Bulletin	3	658-668
13	Impact of climatic variables on fruit bearing behavior and disease incidence in commercial mango cultivars in a semi-arid region	Hammad HM, Tariq T, Saeed S, Malik MT, Siddique HF, Jawad R, Fahad S, Kanwal I and Farooque AA	2025	Applied Fruit Science	67(4)	272
14	Jaggery Based Spray as a Potential Tool in Improving Natural Enemies on Maize Against Spodoptera Frugiperda	Ishtiaq M, Saif Ullah, G Ali, U Sharif, MA Qayyum, MA Farooq, M Ashfaq and MA Z Khan	2025	Journal of Agriculture and Biology	3	284-292
15	Prediction of RNA editing sites and genome wide characterization and identification of PERK gene family in Oryza sativa in response to salinity stress	Waqas HM, MAB Saddique, S Fiaz, AA Alnufaei, MA Sher, B Alharthi, MHN Tahir, MA Khan, S Shahid and SH Yang	2025	Genetic Resources and Crop Evolution	72	10317-10340
16	Impact of antibacterial agents in Horticulture: Risks to non-target organisms and sustainable alternatives	Mehmood MA, MM Iqbal, M Ashfaq, N Raza, J Wang, A Hafeez, SB Kayani and Q Ali	2025	Horticulturae	11	753
17	Early Screening of Chronic Kidney Disease (CKD) Among the Patients of Punjab, Pakistan	Munfoosa jaffar, Zahid Habib Qureshi, Mehwish Iqbal, Dr. Muhammad Faisal, Muhammad Tahir Khan and Madeeha Shahzad Lodhi	2025	Journal of Liaquat University of Medical & Health Sciences	25	111-116

18	Microplastic contamination in agricultural soils from mulch films and organic amendments: Transformation mechanism, soil-Biota toxicity, and future perspectives	Sattar B, Liu G, Yousaf B, Arif M, Gulzar MZ, Sajjad Haider MI, Safeer R, Ijaz S, Haider MA and Aziz K	2025	Waste Management	205	115032
19	Low protein diet with amino acid supplementation maintains laying performance and egg quality while reducing ammonia emissions in Hy-line brown hens	Usman Ali, Kye Jin Lee, Demin Cai and In Ho Kim	2025	Tropical Animal Health and Production	57	354
20	Performance of buckwheat (Fagopyrum esculentum Moench) in response to variable sowing time in low altitude conditions	Alam M, Ghaffar A, Tahir MHN, Iqbal S and Imran M	2025	BMC Plant Biology	25	1066
21	A machine learning-based framework for enhancing data security in Cloud of Things	Sadia Zahra, Afshan Gul, Fatima Bukhari, Kashia Riaz and Muhammad Ahsan Jamil	2025	Journal of Statistics, Computing and Interdisciplinary Research	7	115-138
22	Immunological role of chlorogenic acid in broiler intestinal health under chronic heat stress	Aftab Shaukat, Sana Hanif, Rizwan Shukat, Muhammad Tahir Aleem, Irfan Shaukat, Mikhlid H Almutairi, Bader O Almutairi, Mubashar Hassan, Shahid Ali Rajput, Shu-cheng Huang, Kasim Sakran Abass and Ren-Wei Su	2025	Poultry Science	104	np

23	Local community impact-attitudes-actions toward China–Pakistan economic corridor development in Pakistan	Khan S, Hena S, Khalil I U, Raza MH, Hongwei L, Deji K, Mohammad RA and Cui B	2025	Frontiers in Human Dynamics	7	1559501
24	Physiological and molecular responses of house fly (Musca domestica L) to clove flower bud extracts	MN Sattar, MN Naqqash, N Batool, M Usman, MA Farooq, KMA Ramadan, SA Al Hashedi and AA Al-Shoaibi	2025	Scientific Reports	15	p30856
25	Development, physicochemical, and sensory analysis of moringa oleifera l powder added buffalo milk yoghurt with pharmacological potential	Siddique F, Ahmad S, Hussain A, Firdous N, Nisar R, Bilal M, Najam A, Salik A, Zia M, and Elkhedir AE	2025	Scientific Reports	15	np
26	Physicochemical, Antioxidant, Microbial, and Sensory Analysis of Buffalo Milk Stirred Yogurt Fortified With Cactus Pear (Opuntia ficus indica) Pulp	Siddique F, Arshad M, Khan RA, Ali MQ, Sidrah, Raza MS, Zubairi MN, Firdous N, Hussain A and Woldemariam HW	2025	Food Science and Nutrition	13	np
27	Exploring opportunities for Smallholder Saline Farmers: A Case of Moringa Value Chain in South Punjab, Pakistan	Muhammad Bilal Ahsan, Irfan Ahmad Baig, Benish Sarfraz, Muhammad Faisal Riaz and Mubashir Mehdi	2025	Journal of Global Innovations in Agricultural Sciences	13	np
28	Deep Learning-Based Rice Leaf Disease Detection Using Custom CNN Models	Muhammad Abdullah, Aamir Hussain, Salman Qadri, Javeria Jabeen, Israr Hussain, Mohsin Khan and Hafiz Nazar Faried	2025	Journal of Computing & Biomedical Informatics	9(2)	np

29	Gas Exchange Characteristics, Water Relations, and Irrigation Water Use Efficiency of Wheat Influenced by Potassium Nutrition Under Water-Limited Conditions	Muhammad Usman, Mudassir Aziz, Muhammad Mansoor Javaid, Athar Mahmood, Salman Alamery, Sajid Fiaz, Khuram Mubeen, Tauqeer Ahmad Yasir, Muhammd Ather Nadeem, Kotb A Attia, Yaser M Hafez and Muhammad Nadeem	2025	Polish Journal of Environmental Studies	35	361-377
30	Nutraceuticals: A way forward for cancer treatment	Usman M, S Ahmad, M Sibt-e-Abbas, R Ullah and R Umar	2025	International Journal of Pharmacy & Integrated Health Sciences	6	148-157
31	Biocontrol potential of isolates of Aspergillus flavus and Aspergillus parasiticus against Rhyzopertha dominica, Trogoderma granarium, and Tribolium castaneum	Hafiz Azhar Ali Khan, Tiyyabah Khan and Naeem Iqbal	2025	Journal of Stored Products Research	114	102799
32	Elucidation of Physio-Biochemical Changes in Mango Plants Incited by Xanthomonas axonopodis pv mangiferaeindicae	Asif Mahmood Arif, Muhammad Atiq, Nasir Ahmed Rajput, and Muhammad Ahsan Khan	2025	Pakistan Journal of Botany	58	np
33	Decoding Leishmania in equines: A comparative analysis of molecular targets	MAS Mughal, MK Khan, H Lan, RZ Abbas, M Imran, Z Abbas, MS Mehmood and S Ali	2025	Molecular and Biochemical Parasitology	2025	111699

34	Sublethal exposure of emamectin benzoate and thiamethoxam alters the biological parameters and genes expression in Aedes aegypti (Diptera: Culicidae)	Khalid Mehmood, Muhammad Nadir Naqqash, Nimra Batool, Bander Albogami, Hadeer Darwish, Ahmed Noureldeen and Fatemah Enad M Alajmi	2025	Experimental Parasitology	277	109021
35	Prevalence of bacterial infections, antimicrobial sensitivity, and resistance patterns in respiratory samples	Hafiza Tooba Ashiq, Imran Ahmad Khan and Zubair Shaheen	2025	American Journal of Translational Medicine	17(8)	np
36	Evaluation of the protective effect of aqueous-methanolic leaf extract of Jatropha mollissima (Pohl) Baill on doxorubicin-induced cardiotoxicity in rats via modulating inflammatory markers and oxidative stress	Muhamamd Omer Iqbal and Imran Ahmad khan	2025	Frontiers in Pharmacology	16	np
37	Screening of Colored Cotton Genotypes for Yield, Fiber Quality and Drought Tolerance	Atta Z, MN Riaz, A Fatima, S Hussain, S Ijaz, FZA Khan and H Husanain	2025	Journal of Agriculture and Biology	3	145-158
38	Analgesic and anti-inflammatory activities of mangiferin gel for musculoskeletal injuries in cancer patients	Maliha Khalid Khan, Imran Ahmad Khan, Tanzila Rehman, Javeria Zahra, Wajid Syed, Seed Asiri, Ahsan Anjum, Muhammad Asif Raza, Muhammad Omer Iqbal and Bandar S Alharbi	2025	American Journal of Translational Research	19	6712-6726

39	Chemical characterization and bioactivity of cigarette butt extract as oviposition deterrent and larvicide against Aedes aegypti	Khizar RZ, Baig F, Naeem-Ullah U, Iqbal N and Hussain A	2025	Parasitology Research	124	np
40	Using electromagnetic waves in combination with botanical extracts may improve their efficacy in controlling sucking insect pests of cotton	Farooq MA, Baig F, Ali MF and Nawaz A	2025	Journal of Agriculture and Plant Sciences	6	np
41	Exploring opportunities for smallholder saline farmers: A case of Moringa value chain in South Punjab, Pakistan	Muhammad Bilal Ahsan, Irfan Ahmad Baig, Benish Sarfraz, Muhammad Faisal Riaz, Mubashir Mehdi, Abd Ur Rehman, Michael Mitchell and Muhammad Haseeb Raza	2025	Journal of Global Innovations in Agricultural Sciences	13	1439-1446
42	Early Age Sex Identification in Date Palm (Phoenix dactylifera	Plosha Khanum, Asif Ali Khan, Iqrar Ahmad Khan and Zulqurnain Khan	2025	Journal of Agriculture and Biology	3(2)	180-193
43	Varietal and geographic influences on fruit quality traits of pomegranate (Punica granatum L)	Umair M, IA Rajwana, K Razzaq, S Ullah, U Riaz, R Iqbal, S Aghayeva and M Lackner	2025	Applied Fruit Science	67	367
44	Machine Learning Approach for The Classification of Sunflower Seed Varieties Using Hybrid Features	Sana Zafaryab, Aamir Hussain, Salman Qadri, Rashda Nazir, Rozina Riaz, Shahid Zaman and Altaf Hussain	2025	Journal of Statistics, Computing and Interdisciplinary Research	7	235-255
45	Prevalence, Genetic Variability and Population Diversity of Allexiviruses Infecting Garlic in Pakistan	MZ Hamza, M Ashfaq, H Riaz, N Ahmed, S Saeed and M Ahsan	2025	Journal of Animal and Plant Sciences	35	1613-1629

46	Development and evaluation of food bar utilizing the valuable waste in the form of apple and carrot pomace powders	Kausar T, Aslam K, Hussain A, Arshad R, Waqas MT, Bilal M, Zia M, Sidrah, Firdous N and Elkhedir AE	2025	Discover Food	5	np
47	Genome-wide characterization and expression divergence of voltage-dependent anion channel (VDAC) in upland cotton (Gossypium hirsutum L) in response to abiotic stresses	Ali Ahmad, Furqan Ahmad, Muhammad Aneeq Ur Rahman, Muhammad Baber, Muhammad Nadeem Shah, Muhammad Tanveer Altaf, Ã–nder Albayrak and Umar Akram	2025	Frontiers in Plant Science	16	np
48	Concept of Salvation in Islam, Christianity, and Hinduism: A Comparative Theological Study	Rasheed Ahmad and Nazia Begum	2025	Al-JAMEI	3	446-457
49	Development, physicochemical quality analysis, and nutritional evaluation of mango and date fruit bars, enriched with quinoa	Abid F, Bilal M, Bakhtawar F, Firdous N, Tanveer Malik MM, Hussain A, Ur Rahman S, Hussain Shah SR, Aziz T, Al-Hoshani N, Al-Asmari F and Al-Joufi FA	2025	Italian Journal of Food Science	37	295-311
50	Application of dielectric barrier discharge cold plasma for improving quality and shelf life of cantaloupe-sugarcane-blended juice	Rehman A, Nadeem M, Murtaza MA, Firdous N, Arshad R, Hussain A, Ali W, Khan AA, Ur Rahman I, Alwutayd KM, Al-Asmari F, Al-Joufi FA and Loizzo MR	2025	Italian Journal of Food Science	37	383-402

51	Utilization of aloe vera gel and mango powder in the preparation of instant beverage mix: Physicochemical, phytochemical, and antioxidant analyses	Jamil F, N Firdous, U Farooq, A Ainee, F Bakhtawar, A Hussain, AA Khan, W Ali, T Aziz, AY Binsaleh and N Al-Hoshani	2025	Italian Journal of Food Science	37	422-435
52	Functionalized Biochar with Enhanced Interfacial Properties for Synergistic Adsorption and Photodegradation Mechanisms of Levofloxacin in Industrial Effluents	Haider MIS, Liu G, Yousaf B, Arif M, Ashraf A, Safeer R, Ijaz S and Liu R	2025	Process Safety and Environmental Protection	202	107798
53	Development Of Low Calorie Ready To Serve (Rts) Drink From Guava (Psidium Guajava L)	Ahmad M, Irshad MA, Faiq M, Hashmi MS and Firdous N	2025	International Journal of Agricultural and Natural Sciences	18	162-186
54	Calcium biofortification improves forage productivity and nutritive value of rhodesgrass	Khan M A, R M Ikram, A Matloob, M Imran, MA Raza, Q Abbas, Lynn E Sollenberger and Nicolas Caram	2025	Agronomy Journal	5	np
55	Biosynthesis of Carbon Nanotubes Mediated by Bacillus subtilis and Their Structural Characterization	Mehwish Iqtedar, Naila Farooq, Muhammad Faisal, Muhammad Shafiq, Bader Un Nisa, Hamada E Ali and Muhammad Shafiq Shahid	2025	BioNano-Science	37	np
56	Onion Price Forecasting using Machine Learning Model Market of South Punjab	Rahat Qudsi, Aamir Hussain, Salman Qadri, Nadeem Iqbal, Sami Ullah, Muhammad Ahsan Jamil and Altaf Hussain	2025	Journal of Statistics, Computing and Interdisciplinary Research	7	177-191

57	Effects of biological and technical subsoil amelioration on root growth and crop performance in cereal crops	Muhammad Arslan, Roman Kemper, Thomas F Doring, Oliver Schmittmann and Miriam Athmann	2025	Soil and Tillage Research	256	np
58	Performance Evaluation and Stress Screening of Colored Cotton Genotypes for Yield, Fiber Quality and Drought Tolerance	Ataa Z, MN Riaz, A Fatima, S Hussain, S Ijaz, FZA Khan and H Husanain	2025	Journal of Agriculture and Biology	3	145-158
59	Heat Stress Improving Yield, Quality and Baking Traits of Terminal Heat Stressed Bread Wheat (Triticum aestivum L) Through Exogenous Selenium	Muhammad Shahid, Muhammad Farrukh Saleem, Amna Saleem, Muhammad Sarwar, Nabeel Ahmad Ikram, Abdul Shakoor, Shakeel Ahmad Anjum, Khalid Mahmood and Amina Rashid	2025	Journal of Agronomy and Crop Science	211	np
60	Dry Air improves GC-EAD sensitivity for detecting semiochemicals in Carpophilus davidsoni	Baig F, Farnier K and Cunningham P	2025	Physiological Entomology	32	np
61	Risk assessment of synthetic insecticides and botanicals to Western honey bee, Apis mellifera (Hymenoptera: Apidae)	Sami Ullah, Naeem Iqbal, Muhammad Sohail Shahzad, Hafiz Azhar Ali Khan, Khalid Rafiq, Allah Ditta Abid, Mudssar Ali and Shafqat Saeed	2025	International Journal of Tropical Insect Science	45	2621-2629
62	Silicon Seed Priming Enhances Maize Germination, Biomass, and Vigor Under Simulated Drought Stress	Shoaib Zawar, Muhammad Mujahid Akbar, Mudassir Aziz, Muhammad Waqas Yonas, Sahar Hassannejad and Mehdi Rahimi	2025	Silicon	17	3939–3945

63	Recent advancements in the diagnosis of parasitic diseases	S Afresham, MK Khan, MAS Mughal, MS Mehmood, S Ali, M Bashir, Z Abbas, A Azeem, W Ahmed, M Imran, RZ Abbas, ZUD Sindhu and MS Sajid	2025	Molecular and Biochemical Parasitology	2025	111706
64	Synthesis of Fluorescent Molecularly Imprinted Polymer with Magnetic Chitosan/Graphenen Oxide Composite for Extraction of Fipronil from Sugarcane Juice	Nosheen Majeed, Muhammad Sajid, Zeeshan Ali, Muhammad Hayat, Waseem Hassan and Muhammad Jamil	2025	Chemistry Africa	8	4291-4305
65	Effect of nano and bulk iron oxide on growth, yield, and iron enrichment in rice	Akmal Muhamad, Ali Muhammad, Younus Ayesha, Riaz Umair, Alam Sardar and Wakeel Abdul	2025	Journal of Plant Nutrition	49	870-883
66	Carbon capture through alkaline solvents coupled with conversion into bioplastics via microalgae: Towards a sustainable bioconversion pathway	Q Abbas, M Arif, H Ullah, T Fazal, M Ubaid Ali, S Irshad, A Ashraf, K Pikon and B Yousaf	2025	Renewable and Sustainable Energy Reviews	223	115999
67	Integrated Geochemical Speciation and Isotopic Fingerprinting of Anthropogenic Lead Across Agro-Urban and Industrial Soil Systems	Irshad S, Liu G, Abbas Q, Rehman A, Arif M, Ashraf A, Cheema AI, Mahfooz Y, Pikon K and Yousaf B	2025	Environmental Technology & Innovation	40	104610

68	High-performance clay and K 2 CO 3 - Modified sludge biochar for efficient reactive black-5 Removal: Mechanistic insights and alleviation of phytotoxicity	Arif M, Liu G, Zia-ur-Rehman M, Abbas Q, Ashraf A, Rashid MS, Pikon K and Yousaf B	2025	Biomass and Bioenergy	202	108235
69	Bridging conventional clinical tests and advanced biomarkers for the early diagnosis of kidney disease progression	Bakhtawar Farooq, Zahid Habib Qureshi, Muhammad Faisal and Madeeha Shahzad Lodhi	2025	Pakistan Journal of Medical Sciences	41	3095-3104
70	Interactive Effect of Zinc and Phosphorus Application on Growth and Yield of Bt Cotton	Usman M, Hammad HM, Shahzad MS, Abid AD, Anwar A, Shaheen M, Ahmad S, Shah MN, Junaid MB, Haider I, Akhtar M and Al-Dosary MA	2025	Polish Journal of Environmental Studies	34	6781-6789
71	Automated Tomato Disease Diagnosis using Deep Learning: A Robust Approach with XAI and Transfer Learning	Usman Tariq, Aamir Hussain, Salman Qadri, Sarfraz Hashim, Altaf Hussain, Hafiz Nazar Faried, and Mueez Amin	2025	Lahore Garrison University Research Journal of Computer Science and Information Technology	9	100-112
72	View of Chasing Efficiency without a Map: The Supply Chain Knowledge Crisis in Pakistani SMEs	Muhammad Abdullah Tariq, Zafar Iqbal, Shoaib Akhtar, Shazia Khurshid and M Haseeb Raza	2025	International Journal of Advanced Social Studies	5	1-8

73	Exploring food value, nutritional profiling, and lipid stability of moringa oleifera seed oil: a comparative study of thermal (microwave heating and frying) and incubation treatments	Zafar A, Afzal K, Aslam H KW, Ali MQ, Zerlasht M, Arshad R, Rubab I, Faisal MS, Fatima M, Firdous N and Hussain A	2025	Journal of Food Measurement and Characterization	20	1711-1723
74	Impact of Silicon Application on the Mineral Nutrient Profile and Fruit Quality of Mandarin Citrus Hybrid	Bakhat HF, Razzaq MI, Khalid MS, Abbas S, Natasha, Awan MI, Anwar H, Shah GM, Afzal S, Ashraf MR and Hammad HM	2025	Applied Fruit Science	67	458
75	Algal-based membrane bioreactors: a sustainable Frontier for removing emerging pollutants from wastewater	Nadeem Raza, Zeeshan Ali, Suryyia Manzoor, Abdelmonaim Azzouz, Khalid Aziz, Sarfaraz Hashim, Mohamed Khairy, Mohamed E Salem and Anis Ahmad Chaudhary	2025	RSC Advances	15	49030–49062
76	Insect Pollination Enhances Yield and Physicochemical Quality Traits in Three Jujube Cultivars	Waseem M, Khan DH, Ali M, Khan FZA, Hakim A and Mozraitis R	2025	Insects	16	1183
77	Article Integrating Local Knowledge and Institutional Analysis to Address Soil Salinity in Agro-Based Rural Communities	Nasir Nadeem, Choudary Ihtasham Ali, Irfan Ahmad Baig and Hafiz Zahid Mehmood	2025	Journal of Innovative Agriculture and Social Development	4	34-37
78	The interplay of community attitudes, local development, and personal benefits: understanding support for the China–Pakistan Economic Corridor	Jun Y, Khan S, Hena S, Khalil IU, Raza MH and Cui B	2025	Frontiers in Sustainable Food Systems	9	1651133

79	Valorization of fish oil from processing by-products: Composition, nutritional value, and potential applications Applied Food Research	Korma SA, Rehman A, Hussain A, Kauser S, Firdous N, Siddique F, Sidrah, Fahmy M A, Nassar KS and Esatbeyoglu T	2025	Applied Food Research	5	101552
80	Physio-biochemical insights into cotton's response to drought stress: a mini review	Muhmmad Kashif Shahzad Sarwar, Saghir Ahmad Abdul Ghaffar, Muhammad Yasin Ashraf, Shoaib-Ur-Rehman And Ummara Waheed	2025	Pakistan Journal of Botany	6	2389
81	Optimizing Phosphorus Fertilization in Cotton through Multi-Coated Diammonium Phosphate under Alkaline Soil Condition	Tariq M, Riaz U, Arif M, Waqas A, Murtaza G, Rehman HU, Maozhi R and Iftikhar H	2025	Planta Animalia	4	577-588
82	An IoT-Driven Hybrid Deep Learning Model for Fall Detection in Aging Populations	Aamir Hussain, Javaid Ahmed Malik, Salman Qadri, Raffaele Gravina, Muhammad Gulshair Khan and Giancarlo Fortino	2025	IEEE 11th World Forum on Internet of Things	2	np
83	Impact of Team-Based Learning on Academic Performance of Physiotherapy Students	Maliha khalid, Imran Ahmad Khan and Komal Ammar Bukhari	2025	Annals of King Edward Medical University	31(4)	np
84	Integrating Garlic (Allium sativum) and Ginger (Zingiber officinale) into Diabetes Care: A Therapeutic Approach	Arooj Fatima, Umrah Zafar and Hafiz Muhammad Naveed Sattar	2025	Journal of Food Processing & Nutrition Research	2	np

85	Virus-induced Gene Silencing of SPY Gene Related to Drought Stress in Cotton	Saba Yaseen, Ummara Waheed, Furqan Ahmad, Junaid Imam and Zulqurnain Khan	2025	International Journal of Cotton Research and Technology	7	25-31
86	Polyacrylamide Enhances Irrigation Efficiency: Opportunities for Pakistan's Horticulture Sector	Bokhari SAM, T Ahmad, R Nazir, M Arif, F Shireen, MA Nawaz, S Rehman, A Bibi and M Tariq	2025	Biology and Life Sciences Forum	51	8
87	Sustainable Management of Plant Pathogens Using Beneficial Microbes in Dynamic Agroecosystems	Qadeer I, M Tayyib, U Farooq, N Zuhra and Q Ali	2025	Plant Protection	3	753-767
88	Advancing Therapeutics: CRISPR-Cas9 and Emerging Drug Delivery Systems	Haseeb Ahmed, Nimra Ramzan, Muhammad Yahya, Areeba Aslam, Sidra Aslam and Plosha Khanum	2025	Pakistan Journal of Biochemistry and Biotechnology	6 (2)	145-155
89	Characterization of Exotic Berseem (Trifolium alexandrinum L) Germplasm for Forage Yield and Quality	Muhammad Adnan, Plosha Khanum, M Hammad Nadeem Tahir, M Asif Shehzad, Kumail Raza, Nisha Shabir, Tayyab Ameen and Shahdais Amir	2025	Pakistan Journal of Biochemistry and Biotechnology	6 (1)	18-28
90	Prevalence, Antibiotic Resistance, and Antibacterial Activity of Herbal Extracts Against Escherichia coli from Food and Waterborne Sources in Multan, Pakistan	Bakhtawar Khan, Ahsan Anjum, Muhammad Talha Saeed, Neha Ayoob, Ishaq Haider, Tehreem Iqbal, Muhammad Nazim, Muhammad Zeeshan, Rida Kousar and Sana Mehar	2025	Trends in Animal and Poultry Sciences	3	np

91	Edge-optimized Lightweight and Transformer backbones for Real-Time Road Damage Detection in IIoT Systems	HMS Badar, I Hussain, AK Bashir, N Alturki, G Fan and C Zhang	2025	IEEE Internet of Things Journal	13	np
92	Genotyping by sequencing reveals a chromosome A04 QTL governing whitefly resistance in upland cotton	Rahman OU, Hussain SB, Javed M, Arshad SF, Khan Z, Usman M, Arshad HJ and Anwar M	2025	Scientific Reports	16	3113
93	Whole-exome sequencing reveals GRHPR gene mutation in a 4-year-old girl with chronic kidney disease: a case report	Bakhtawar Farooq, Zahid Habib Qureshi, Madeeha Shahzad Lodhi, Muhammad Faisal, Esha Khan and Muddassir Khalid	2025	Annals of Medicine & Surgery	1	929-934
94	Pollination Effectiveness of Solitary and Social Bees Enhances Postharvest Parameters of Grewia asiatica L(Malvaceae)	Jalali AI, Ali M, Khan FZA, and Manzoor SA	2025	Sociobiology	72	11915
95	Impact of Cotton Diseases on Yield: Farmers' Knowledge and Management Practices in Pakistan's Core Cotton Zone	Saleem Ashraf, Hafiz Amjad Ali Rana, Adeel Ahmed, Muhammad Mubeen Khadim, Amir Ali and Muhammad Shahzad	2025	Plant Protection	9	955-965
96	Screening of Chickpea (Cicer arietinum L) Genotypes Under Water Stress Conditions	Hanzla M, U Waheed, S Merrium, A Fatima, MAB Saddique and S Ijaz	2025	Plant Bulletin	Vol 4	226-236
97	Unveiling the incidence and distribution of RNA viruses infecting cucurbit crops in Dera Ghazi Khan division	Fawaz MS, M Ashfaq, MA Mehmood, U Naeem-Ullah, SB Kayani and HR Ali	2025	Plant Bulletin	4	94-106

98	Synergies and struggles: Water security and climate action in South Asia's quest for SDG 6 and SDG 13	Baig F, Kassem A, Akhter MZ, Kabeer S, Faiz MA, Baig MF and Sherif M	2025	Gondwana Research	148	np
99	In-Situ Application of Electromagnetic Waves in Combination with Botanical Extracts to Enhance Their Effectiveness in Controlling Sucking Insect Pests of Cotton	Farooq MA, MF Ali, A Abbasi, F Baig and B Atta	2025	Journal of Animal and Plant Sciences	36	405-417
100	Polyacrylamide Enhances Irrigation Efficiency: Opportunities for Pakistan's Horticulture Sector	Bokhari SAM, Ahmad T, Nazir R, Arif M, Shireen F, Nawaz MA, Rehman S, Bibi A and Tariq M	2025	Biology and Life Sciences Forum	51	8
101	Shelf-Life Study of Value-Added Freeze-Dried Jujube Cake	Misbah Sharif, Ambreen Naz, Umair Raza, Ushna Momal, Hira Jabeen, Ali Iqbal and Shan Muzamail	2025	Scholars Academic Journal of Biosciences	13	1645-1655
102	Prevalence, genetic variability and population diversity of allexiviruses infecting garlic in Pakistan	Hamza MZ, M Ashfaq, H Riaz, N Ahmad, S Saeed and M Ahsan	2025	Journal of Animal and Plant Sciences	35	1613-1629
103	Targeting NLRP3 and AIM2 signaling pathways by Viscosol alleviates metabolic dysregulations induced inflammatory responses in diabetic neuro- and nephropathy: An in silico and in vivo study	Thahiem S, Ihsan M, Muneer H, Sohail A, Khan M, Murtaza I, Uddin Z, Shafique M, Alzahrani KJ, Ali H and Ullah I	2025	PLOS ONE	20	np

104	Advanced Diagnostic Techniques and Early Detection of Animal Diseases	Shakoor K, Shahzadi A, Kiran S, Waqas MU, Hussain K, Bibi S, Haider A, Muneer MH, Raza I, Rehman A and Khan JA	2025	Veterinary Internal and Preventive Medicine	1	53-60
105	Advances in Diagnosis and Therapeutics of Bovine Tuberculosis	Bibi S, Shahzadi I, Kiran S, Muneer MH, Shakoor K, Haider A, Raza I, Waqas MU, Hussain K Rehman A and Khan JA	2025	Veterinary Internal and Preventive Medicine	1	61-70
106	Assessment of Cotton Cultivar Resistance to Cotton Leaf Curl Disease in Multan District	Hassan M, H Riaz and M Ashfaq	2025	Pakistan Journal of Biochemistry and Biotechnology	6	179-186
107	Effect of miR-1 and miR-126-5p in BCL2 and PIK3R2 regulation in apoptotic signaling during ST-elevation myocardial infarction	Arshia Mehmood, Almas Muhammad Arshad, Awais Altaf, Tahir Maqbool, Hafiza Saba Safdar, Muhammad Faisal, Madeeha Shahzad Lodhi, Nawal Al-Hoshani, Maher S Alwethaynani, Shaza N Alkhatib, Omniah A Mansouri and Hanan Abdulrahman Sagini	2026	Allergologia et Immunopatho logia	54	154-165
108	Hermetic storage reduces postharvest losses in challenging ambient environments	Khalid E, I Afzal and MA Bakhtavar	2026	Journal of Stored Products Research	115	102836
109	Characterizing biological parameters of Myzus persicae biotypes and diagnosing R81T linked neonicotinoids resistance	Muhammad Umair Sial, Muhammad Nadir Naqqash, Saqib Rahman, Muhammad Fiaz, Muhammad Ramzan, Jameel M	2026	Ecotoxicology and Environmental Safety	309	119684

		Al-Khayri, Othman Al-Dossary, Bader Alsubaie, Mohammed I Aldaej and Mustafa I Almaghasla				
110	Phosphorus and Zinc Synergies with Zeolite, Laterite, and Biochar for Mitigating Cadmium Toxicity in Maize	Farid G, Haq TU, Hussain MB and Matloob A	2026	Pakistan Journal of Botany	58	4
111	Expression divergence of BAG gene family in maize under heat stress	Babar Farid, Muhammad Abu Bakar Saddique, Muhammad Hammad Nadeem Tahir, Rao Muhammad Ikram, Zulfiqar Ali and Waseem Akbar	2026	BMC Plant Biology	25	16
112	Altitudinal variation in leaf morphology and functional traits of sea-buckthorn (Hippophae rhamnoides) in Gilgit region, Pakistan	Hakeem S, Z Ali, MAB Saddique, MA Sher, S Merrium and M Wiehle	2026	Scientific Reports	1	np
113	Development, Characterization, and Clinical Evaluation of a 6% Nitroglycerin–Aloe Vera Transdermal Gel for Stable Angina Management	Kashaf Khan Anjum, Imran Ahmad khan, Muhammad Omer Iqbal and Maliha Khalid Khan	2026	Drug Design, Development and Therapy	20	np
114	Multifunctional fluorescent magnetic molecularly imprinted polymer for curcumin delivery: in vivo wound healing, antibacterial activity, and in silico pharmacokinetic evaluation	Zeeshan Ali, Nadeem Raza, Muhammad Hayat, Hafiz Muhammad Usman Abid, Abdelmonaim Azzouz, Bouchra Rossafi, Imad Hammoudan, Anis Ahmad Chaudhary,	2026	Journal of Drug Delivery Science and Technology	1	554673

		Mohamed Khairy and Mohamed Abdel-Megid				
115	Silicon Seed Inoculation Enhances Antioxidant Defenses, Physio-Biochemical Mechanisms and Yield Traits in Maize Hybrids Under Heat Stress Conditions at Vegetative and Tasseling Stages	Hussain I, Rahman MHU, Ikram RM, Hussain MB, Ahmad S and Roetter RP	2026	Field Crops Research	346	110572
116	Calcium Enrichment Improves Nutritional Value of Rhodesgrass Hay	Khan MA, RM Ikram and H Riaz	2026	New Zealand Journal of Crop and Horticultural Science	54	e70121
117	Morphological and Proximate Characteristics of Tree, Nut and Kernel of Almond Genotypes Grown Under Subtropical Conditions	Shah AU, IA Rajwana, S Ullah, K Razzaq, G Akhtar, N Faried and S Adam	2026	Applied Fruit Science	68	30
118	Advanced molecular tools for surveillance and management of tobamoviruses	Mehmood MA, MM Iqbal, M Ashfaq, S Chen and J Wang	2026	Frontiers in Plant Science	16	1718133
119	Impact of Gamification and Perceived Risk on Online Consumer's Buying Intention in Multan	Maryam Tahir, Umar Ijaz Ahmed, Umar Kamal, Irfan Ahamd Baig and Mohsin Raza	2026	International Journal of Social Sciences Bulletin	4	175-192
120	Earthworm-Assisted Remediation of Aged Benzo [a] pyrene-Contaminated Soil and Its Impact on Microbial Community Structure	Wanyu Xu, Xinhua Gao, Shiyin Huang, Yue Xie, Babar Farid, Wen Qiu, Yage Guo, Bingjie Xu, Zhengqi Zhang, Xiang Wang and Lina Sun	2026	Environmental Research	1	123904

121	Bio-inspired synthesis of Co-doped iron oxide nanoparticles using Ocimum tenuiflorum extract for enhanced oxygen evolution reaction	Mariam Khan, Nadeem Raza, Shamsa Munir, Faiza Asghar, Salma Gul, Shahid Afridi, Nigarish Bano, Mostafa E Salem, Anis Ahmad Chaudhary and Zeeshan Ali	2026	RSC Advances	16	8441–8452
122	Genome-wide identification of ADK gene family associated with heat stress tolerance in chili (Capsicum annuum L)	Saad Farid Usmani, Muhammad Abu Bakar Saddique, Sajid Fiaz, Muhammad Hammad Nadeem Tahir, Ummara Waheed, Muataz A Abdalla, Umsalama AH Ahmed, Badr Alharthi, Hafiz Nazar Farid, Rui Pan and Seung Hwan Yang	2026	BMC Genomic Data	27	np
123	Investigating the catalytic and antimicrobial properties of ternary cesium/polyethylene glycol-SrO supported by molecular docking and DFT analysis	Tariq M, Imran M, Haider A, Shahzadi I, Javed F, Ul-Hamid A, Albassami NA, Nazir G and Ikram M	2026	RSC Advances	16	np
124	GIS Based Assessment of Cadmium and Heavy Metals Contamination in Wastewater-Irrigated Areas of Multan, Pakistan	Farid G, Haq TU, Hussain MB Matloob A	2026	Eurasian Journal of Soil Science	15	126-140
125	Evaluating the combined influence of metformin therapy and aerobic exercise on metabolic and inflammatory markers in type 2 diabetes mellitus	Ismail A, Khan IA, Khan MK, Usman M, Sattar M and Bukhari KA	2026	Sport Sciences for Health	22	72

126	Evaluating the combined influence of metformin therapy and aerobic exercise on metabolic and inflammatory markers in type 2 diabetes mellitus	Imran Ahmad Khan, Kiran Ashraf and Mlaiha Khalid Khan	2026	Sport Sciences for Health	22(1)	np
127	Understanding the heat stress mitigation mechanisms during pollen development in Gossypium hirsutum L	Rabia Habib, Zulqurnain Khan, Abdel-Halim Ghazy, Shoaib ur Rehman, Kotb A Attia, Maria Siddique, Sajid Fiaz, Abdullah A Al-Doss, Muhammad Abu Bakar Saddique and Ummara Waheed	2026	Molecular Biology Reports	53	np
128	Field assessment of the effects of Cry1Ac and Cry1Ac+ Cry2Ab Bt cotton against pink bollworm in Pakistan	Hanif M, Saeed S, Ali M, Ishtiaq M, Khan Z, Li X and Fabrick JA	2026	Journal of Cotton Research	9	7
129	Mechanistic insights into cadmium and lead immobilization on functional biochars via multi-spectral mapping	Munir MAM, Ali MU, Munir M, Liping C, Arif M, Chi C, Cheema AI, Wong MH, Yang X and Pan X	2026	Environmental Chemistry and Ecotoxicology	8	1604-1620
130	Exogenous Potassium Triggered Improvements in Yield, Quality, and Baking Traits of Terminal Heat-Stressed Bread Wheat	Muhammad Shahid, Muhammad Farrukh Saleem, Amna Saleem, Muhammad Sarwar, Nabeel Ahmad Ikram, Abdul Shakoor, Shakeel Ahmad Anjum and Khalid Mahmood	2026	New Zealand Journal of Crop and Horticultural Science	54	np

131	Sublethal effects of azadirachtin on life table parameters of Musca domestica (Diptera: Muscidae): implications for population dynamics in Pakistan	Naeem Iqbal, Nauman Sadiq, Hafiz Azhar Ali Khan, Allah Ditta Abid, Muhammad Sohail Shahzad, Muhammad Nadir Naqqash and Adnan Akhter	2026	International Journal of Tropical Insect Science	46	1395-1404
132	Genotypic Variation in Physiological and Molecular Responses Underpins Differential Germanium Tolerance in Rice (Oryza sativa L)	Ahsen S, Tu S, Javeed MA, Shehzad K and Hussain MB	2026	Journal of Hazardous Materials Advances	21	100978
133	Virus-induced Gene Silencing of SPY Gene Related to Drought Stress in Cotton	Saba Yaseen, Ummara Waheed, Furqan Ahmad, Junaid Imam and Zulqurnain Khan	2026	International Journal of Cotton Research and Technology	7	25
134	Efficient PVP-doped Zn-MOF nanostructures for catalytic and antibacterial activity with in silico molecular docking study	Aslam S, Imran M, Haider A, Shahzadi A, Bari MA, Ul-Hamid A, Ullah H and Ikram M	2025	Journal of Molecular Structure	1352	np
135	A comprehensive risk assessment of non-dioxin-like and dioxin-like PCBs in indoor and outdoor dust from Hefei, China	M Shen, Zhou L, Liu G, Liu R, Yin H, Hu Y, Arif M and Zhang Q	2026	Atmospheric Environment	367	121740
136	Fitness costs of sublethal cyantraniliprole exposure: life-history trade-offs in the non-target insect Musca domestica	Amir A, Iqbal N, Sadiq N, HAA Khan, MS Shahzad, F Baig and T Khan	2026	Scientific Reports	2	np

137	Do Digital Transformation and Renewable Energy mitigate CO2 Emissions in SAARC Economies? A Dynamic Panel Data Analysis	Munir N, Bashir F, Atiq-ur-Rehman M and Fazal S	2026	Pakistan Journal of Humanities and Social Sciences (PJHSS)	1	20-26
138	Evaluation of Alternaria alternata and A tenuissima as novel entomopathogenic agents against Trogoderma granarium, Tribolium castaneum, and Rhyzopertha dominica	Tiyyabah Khan, Hafiz Azhar Ali Khan and Naeem Iqbal	2026	Journal of Stored Products Research	117	102999
139	Postcolonial Identity and Resistance in Chinua Achebe's Things Fall Apart and Arundhati Roy's The God of Small Things	Muhammad Shoukat Aslam, Naila Samar Naz, Shahan Yamin Siddiqui, Aamir Hussain and Ali Zaman Malik	2026	Southern Journal of Arts & Humanities	3	np
140	Adaptive Learning Systems for Classical Arabic: Personalised Pathways to Proficiency	Muhammad Akhtar, Muhammad Asim Rajwana, Javaid Ahmad Malik, Muhammad Ashad Baloch, Aamir Hussain and Abdul Majid Soomro	2026	Southern Journal of Arts & Humanities	3	57-67
141	Livestock Farmers' Interaction with Punjab Livestock Department: A Study of Field Services and Outreach Programs	Hafiz Amjad Ali Rana, Muhammad Usman, Muhammad Shahzad, Muhammad Luqman, Muhammad Yaseen and Moula Bux Peerzado	2026	Sarhad Journal of Agriculture	42	391

142	Comparative Effects of Rosuvastatin and Resistance-Band Exercise on Lipid Profile and Obesity Parameters in Obese Adults with Dyslipidemia in Multan: A Randomized Controlled Trial	Kiran Ashraf, Imran Ahmad Khan and Maliha Khalid Khan	2026	Pakistan Heart Journal	59(3)	np
143	Genome-Wide Identification and Functional Characterization of the Glycosyltransferase 43 (GT43) Gene Family in Sorghum bicolor for Biofuel Development: A Comprehensive Study	Imran Ahmad Khan, Sarmad Farogh Arshad and Muhammad Usman	2026	Processes	13	np
144	Seed quality and nutritional composition of conventional and zinc biofortified wheat under hermetic and conventional storage techniques	Muazzam M, MA Bakhtavar, S Iqbal, Umar Farooq, S Iqbal, S Ahmad, M Iqbal, SQ Saeed and T Sadaf	2026	Scientific Reports	1	np
145	Assessing population estimation techniques for Odontotermes termites at various locations in Multan, Pakistan	Hafiza Tahira Gul, Naeem Iqbal, Shafqat Saeed and Ishtiaq A Rajwana	2026	Journal of Animal and Plant Sciences	36	921-932
146	Impact of Different Ripening Methods on Physicochemical, Nutritional Properties and Occurrence of Potentially Toxic Elements in Banana Fruit From Pakistan	Nasir U, A Ismail, M Riaz, A Hameed, M Amir, K Razzaq, S Ali, CAF Oliveira, F Aslam and MZ Aslam	2026	Journal of Food Safety	46	e70062

147	Chitosan and polyacrylic acid engineered AlFeO3 validated degradation of rhodamine B and resistant Pseudomonas aeruginosa of epizootic ulcerative syndrome in Ctenopharyngodon idella with mechanistic insights	Iqbal A, Kiran S, Haider A, Shakoor K, Ul-Hamid A and Ikram M	2026	International Journal of Biological Macromolecules	349	np
148	Multifunctional PAA and PEG modified Co3V2O8 nanoparticles for enhanced RhB degradation, OER activity, and antibacterial activity: Experimental validation and computational insight	Munir A, Imran M, Shahzadi I, Haider A, Mateen Z, Ul-Hamid A, Albassami NA and Ikram M	2026	Nanoscale Advances	8	2675–2689
149	Effect of varying levels of digestible methionine on growth and production performance, and egg quality in Hy-Line Brown laying hens	Usman Ali, Jong Sang Yoo and In Ho Kim	2026	Journal of Animal and Feed Sciences	35	np
150	Smart nanosystems for disease-resistant potatoes: a new Frontier in nanobiotechnology	Chen B, Rafiq MU, Usman M, Arshad SF, Hameed A and Abbas M	2026	RSC Advances	16	14728
151	Deciphering the Expression of Klotho, Superoxide Dismutase 1, Catalase, p53, and Cyclophilin Genes in Pathogenesis of Chronic Kidney Disease	Bakhtawar Farooq, Mehwish Iqbal, Munfoosa Jaffar, Zahid Habib Qureshi, Muhammad Faisal and Madeeha Shahzad Lodhi	2026	Journal of Liaquat University of Medical & Health Sciences	Online	np

152	Effect of Olive Oil Supplementation on the Physicochemical Properties, Sensory Profile, and Storage Stability of Mayonnaise	Batool, A U Farooq, A Shafi, Z Khan and J Ali Khan	2026	International Journal of Agriculture & Biology	26	np
153	Integrative screening of maize genotypes for heat tolerance based on biomass, NDVI, and cell membrane thermostability traits	Babar Farid, Muhammad Abu Bakar Saddique, Muhammad Hammad Nadeem Tahir, Waseem Akbar and Aamar Shehzad	2026	Plant Bulletin	5	71-81
154	Yield performance of maize hybrids under varying nitrogen levels in moderately saline-sodic soils	Nawaz MQ, K Ahmed, I Hussain, MA Iftikhar, RM Ikram, S Ahmad, M Rizwan, MF Nawaz, MA Qureshi, G Qadir and M Shakar	2026	Zoo Botanica	4	69-79
155	Does Growth Clean Up After Itself? A Multi-Gas Test of the Environmental Kuznets Curve	Snober Fazal, Javaiz Alam and Faiza Mudassir	2026	Pakistan Journal of Humanities and Social Sciences (PJHSS)	14	325-338
156	Defensive Role of Potassium against Water Deficit in Spring Wheat	Mudassir Aziz, Muhammad Usman, Waseem Hassan, Naeem Sarwar, Khuram Mubeen, Abdul Ghaffar, Tauqeer Ahmad Yasir, Nabeel Ahmad Ikram, Javed Shabbir Dar and Syeda Refat Sultana	2026	Plant Bulletin	5	196-206

158	Integrating Drought-Tolerant Germplasm and Bacterial Endophytes to Improve Maize Performance under Water Deficit	Shahab Atta, Babar Farid, Ali Shah, Qadeer Ahmed, Muhammad Abu Bakar Saddique, Mirza Abid Mehmood, Muhammad Usman Jamshaid, Muhammad Mushtaque, Sana Ullah and Hamza Hasnain	2026	Planta Animalia	5	199-210
159	SWOT Analysis of Sustainable Cotton Production: A Case Study of Punjab, Pakistan	Muhammad Kaleem Ullah, Syeda Tahseen Zahra and Babar Farid	2026	International Journal of Social Sciences Bulletin	4	1652-1664
160	Effect of Combined Applications of Ocimum and Moringa Extract?Based Biostimulants on the Gladiolus Morphophysiological and Biochemical Aspects Under Drought Stress	Aiman B, G Akhtar, SMS Alghanem, OK Hesseki, KM Alhussaen, SS Alotaibi, MA Shehzad, K Razzaq, O Simsek, T izgu, M Amin and F Zulfiqar	2026	New Zealand Journal of Crop and Horticultural Science	54	e70059
161	A Deep Learning-Based Approach for Urdu and English Handwritten Text Recognition	Nazia Rabnawaz, Aiesha Ahmad, Humera Batool Gill, Muhammad Ahsan Jamil and Naeem Aslam	2026	Spectrum of Engineering Sciences	4	3157-3173
162	Retrieval-Augmented Generation with Agentic Orchestration and Semantic Vector Search for Evidence-Based Type 2 Diabetes Management	Eman Masood, Ayesha Nadeem, Aatif Hussain and Muhammad Ahsan Jamil	2026	Spectrum of Engineering Sciences	4	2483-2493

163	Computationally validated magnesium and graphene oxide anchored SnO2 quantum dots for RhB reduction and antibacterial activity	Rai E, Imran M, Shahzadi I, Haider A, Moeen S, Ul-Hamid A, Boukhris I and Ikram M	2026	Nanoscale Advances	8	np
164	Synergistic photo-assisted AOPs using acid-modified biochar: Enhanced micropollutant levofloxacin degradation in industrial wastewater	Haider MIS, Liu G, Yousaf B, Arif M, Aziz K, Sattar B, Gulzar MZ, Chand H and Liu R	2026	Desalination	624	119900
165	Pangenome-assisted characterization of TaBAM genes and association of TaBAM16-1B with NDVI in wheat	Anam, Maira, Zulqurnain Khan, Muhammad Ali Sher, Muhammad Sajjad, Muhammad Kashif Naeem, Zijin Zhang, Sania Javeed, Fatima Javeria, Jing Chen and Shoaib Ur Rehman	2026	Theoretical and Applied Genetics	139	np
166	Proteolytic hydrolysis and functional characterization of zein protein hydrolysates	Sharif M, Naz A, Farooq U and Razzaq K	2026	European Food Research and Technology	252	207
167	Graphene oxide and polyvinylpyrrolidone doped mixed-phase copper tungstate for dye decolorization and S aureus inactivation with molecular docking and DFT study	Ahmad Z, Imran M, Haider A, Shahzadi I, Mustajab M, Ul-Hamid A, Fouda AM and Ikram M	2026	Surfaces and Interfaces	88	np
168	Heat stress in Brassica napus L: Toxic effects and adaptive responses	Yonas MW, Zawar S, Yousaf H, Ibrahim M, Gull A, Akbar MHM and Aziz M	2026	Sarhad Journal of Agriculture	42	724-737

169	Spatial variability of soil physicoehemical properties in hill torrent command areas of punjab, pakistan	Asif M, Mubeen K, Ahmed S, Sarwar N, Wasaya A, Yasir TA, Ghaffar A, Aziz M, Matloob A, Ahmad S and Ahmad M	2026	Journal of Animal and Plant Sciences	36	2026
170	Biochar Modification with Iron Oxide Nanoparticles can Enhance its Adsorption Capacity for Phosphorus	Sehar S, Arif M, Ul Haq T, Ahmad T and Qayyum MF	2026	Water, Air, & Soil Pollution	237	848
171	Alport Syndrome–Associated Pathogenic COL4A4 Variant in Sisters with Chronic Kidney Disease: Clinical Findings and Integrative Network Analysis	Bakhtawar Farooq, Zahid Habib Qureshi, Muhammad Tahir Khan, Muhammad Faisal, Madeeha Shahzad Lodhi and Annamaria Sapuppo	2026	International Journal of Genomics	online	np
172	Genome-wide Identification and Expression Analysis of the Cpp Transcription Factor Family and its Response to Abiotic Stress of Drought in Sorghum bicolor (l) Moench	Sayeda Meryam Salman Peerzada, Furqan Ahmad, Ali Ahmad, Sana Ullah, Aliza Humayun and Umar Akram	2026	Trends in Animal and Plant Sciences	7	174-186
173	SpikeVision: classification of wheat varieties using machine vision	Khalil Ur Rehman, Abdul Razzaq, Salman Qadri, Hussain Dawood, Sajid Iqbal, Aamir Hussain and Sharaiz Shahid	2026	International Journal of Food Properties	29	np
174	Antimicrobial resistance and tetA gene mediated tetracycline resistance in avian pathogenic Escherichia coli from broiler farms in Multan, Pakistan	Batool F, Haider A, Ahmad AS, Saddique MA, Waqas MU, Hussain K, Prince K, Ahmed B, Shahbakht RM, Rehman A and Raza MA	2026	Pakistan Veterinary Journal	46	189-195

175	Parametric optimization and mechanistic investigation of polyvinyl chloride microplastic degradation via an intensified hydrothermal Fenton reaction	Gulzar MZ, Liu G, Imran M, Arif M, Irshad S, Sattar B, Haider MIS, Zhou H and Yousaf B	2026	Journal of Water Processing Engineering	88	110199
176	Root-secreted aminosalicylic acid and 4,6-dioxoheptanoic acid: Dual roles in enhancing 4-nonylphenol bioavailability and regulating rhizospheric microbiota community	Yage Guo, Wenzong Zhou, Maofeng Dong, Wen Qiu, Xinhua Gao, Tanveer Ahmad, Babar Farid, Weiguang Lyu and Lina Sun	2026	Journal of Hazardous Materials	512	142282
177	Tree Age-Dependent Modulation of Fruit Endogenous Hormones and Quality Attributes in ‘Kinnow’Mandarin (Citrus nobilisÃ— C deliciosa)	Bibi K, K Razzaq, IA Rajwana, A Naz and MS Khalid	2026	Applied Fruit Science	68	187
178	Computational assessment of curcumin as a multi-target anti-inflammatory agent in patellar tendinopathy	Khan IA, Khan MK, Jabeen A, Usman M, Saleem MU, Ghauri QA, Rehman A and Khan MI	2026	Journal of the Iranian Chemical Society	23	196
179	A multidimensional review of nutrition, environment and socio-cultural acceptance of edible insects in Southeast Asia	Sadaf A, Raza N, Mehmood MA, Shahbaz M, Farooq U, Ashfaq M and Fawaz MS	2026	British Food Journal	128	10

180	Evaluation of BSA-Derived Carbon Quantum Dots Against Pectobacterium atrosepticum for the Control of Potato Blackleg	Mohammad Umair Rafiq, Akhtar Hameed, Rana Binyamin, Muhammad Usman, Muhammad Faisal, Muhammad Waqar Alam, Waseem Hassan and Subhan Ali	2026	Pakistan Journal of Agricultural Sciences	63	493-500
181	Integrated nutrient management stabilizes rice yield and maximizes water productivity under deficit irrigation in arid Punjab, Pakistan	Najeeb U, MM Ghauri, RM Ikram, U Ali, A Fraz and C Meinan	2026	Journal of Agriculture, Food, Environment and Animal Sciences	7	np
182	Impact of dehydration temperature on the nutritional, phytochemical and volatile flavor profile of mango (Mangifera indica L) varieties from the subtropical region of Pakistan	Hayat K, U Farooq, A Shafi, and Z Khan	2026	Asian Journal of Agriculture and Biology	e2026098	np
183	Gut Bacterial Dysbiosis and Its Correlation with COVID-19 Patients	Hafiz Muhammad Ishaq, Riffat Yasin, Rabiya Naz, Rao Zahid Abbas, Umair Iqbal, Naheed Bano, Samar Wafa Kabir, Imran Ahmad Khan, Khizer Smiullah and Muhammad Shahzad	2026	Journal of Ayub Medical College	38	1-12
184	Morpho-Chemical Diversity in White Flesh Guava Germplasm from Sindh for Conservation and Breeding	Joiya W, B Fatima, M Usman, MA Rana, NN Memon, SAM Bokhari and A Ali	2026	Pakistan Journal of Agricultural Sciences	63	341-350

2.4.2 BOOKS/BOOK CHAPTERS PUBLISHED

Sr. No.	Book/Chapter Title	Editor's Name	Author's Name	Year	Publisher
1	Nutrigenomics in Tomato: Enhancing Health Benefits Through Molecular Breeding	Muhammad Waseem, Channapatna S Prakash, Sajid Faiz, Zhengguo Li	Firdous N, U Farooq, A Batool, F Jamil and A Aslam	2025	Springer Nature Singapore / Springer Nature Switzerland AG
2	Postharvest Metabolomics: Prolonging Shelf Life and Quality of Tomatoes	Muhammad Waseem, Channapatna S Prakash, Sajid Faiz, Zhengguo Li	Firdous N, U Farooq, A Batool, A Aslam, E Aliza, S Ahmad, M Sibte Abbas, M Usman and S Khalil	2025	Springer Nature Singapore / Springer Nature Switzerland AG
3	The Flavor of Sustainability: Citrus Waste in Distillation	Anamika Chauhan, Fakhar Islam, Ali Imran, and Jagbir Singh Aswal	Batool A, U Farooq, N Firdous, A Shafi, H Saqib, R Akram and H Saleem	2025	Springer Nature Switzerland AG
4	"Omics" Applications for Tomato Production	Muhammad Waseem, Channapatna S Prakash, Sajid Faiz, Zhengguo Li	Batool A, U Farooq, N Firdous, S Hamna, I Zafar, S Tahira and S Amna	2025	Springer Nature Singapore / Springer Nature Switzerland AG
5	Food Safety Consideration to Achieve Global Health Outcomes under Food Security Issues	Shahid Hussain Farooqi, Kholik Kholik, Muhammad Arfan Zaman	Firdous N, Farooq U, Rehman S, Ahmad S, Sibt-e-Abbas M, Abid J, Azhar M, Shaukat M and Ahmad M	2025	Unique Scientific Publishers
6	Retrotransposons in Soybean (Glycine max)	Pandita et al,	Fatima A, Muhammad G, Waheed U, Ijaz S, Khanum P and Khan Z	2025	CRC press Taylor & Francis
7	Retrotransposons in Genome of Hordeum vulgare	Pandita et al,	Habib R, Khan Z, Shabir S, Ijaz S, Fatima A and Waheed U	2025	CRC press Taylor & Francis Group

8	Retrotransposons in Nicotiana Plant Genome	Pandita et al	Ijaz S, Ghazanfar A, Khan VS, Waheed U, Fatima A and Khan Z	2025	CRC Press, Taylor & Francis Group
9	Modernizing Transit: Intelligent Traffic and Transportation Management with Artificial Intelligence in the Era of 5G and 6G	Shruti Sharma, Ashutosh Sharma, Trinh Van Chien	Maira Khalid, Muhammad Awais, Chandroth Jisi, Manal Ahmad and Byeong-hee Roh	2025	Taylor & Francis Group
10	Quantum Intelligence: Accelerating Big Data Analysis with Quantum Computing	Shruti Sharma, Ashutosh Sharma	Manal Ahmad, Muhammad Ahsan Jamil, Faiz Jillani, Ramsha Ahmad, Maira Khalid, Abdul Razzaq and Salman Qadri	2026	Springer
11	Bridging Domains with Artificial Intelligence and Machine Learning	Shruti Sharma, Ashutosh Sharma, Trinh Van Chien	Manal Ahmad, Maira Khalid, Ahmed Raza Mohsin, Fatima Riaz and Byeong-hee Roh	2025	Taylor & Francis Group
12	Food Safety and Food Security: Challenges and Solutions for a Sustainable Future	Farooqi SH, Kholik K and Zaman MA	Umair Raza, Ushna Momal, Asfa Sabir, Ali Iqbal, Misbah Sharif, Hira Jabeen1, Bushra Iram Fatima, Aniqa Saeed, Muhammad Hammad ul Hassan and Dua Tariq	2025	Unique Scientific Publishers, Faisalabad, Pakistan
13	Recent Advances in Date Palm (Phoenix dactylifera L) Biotechnology and Breeding	Plosha Khanum	Khanum P, Khan AA, Khan IA, Ghaffar A and Khan Z	2025	Springer
14	Impact of silica nanoforms on the health and yield of cropsImpact of silica nanoforms on the health and yield of crops	Huseyin Tombuloglu, Guzin Tombuloglu, Khalid Rehman Hakeem	Muhammad Usman, Muhammad Atiq, Nasir Ahmed Rajput, Mohsin Shad and Asif Mahmood Arif	2025	Academic Press

15	Nanomaterials for Contaminant Detection and Remediation in Soil	Akhtar Hameed and Muhammad Zahid	Akhtar Hameed, Rabia Rasheed, Rana Binyamin, Muhammad Ashfaq, Nadeem Ahmed and Asif Mahmood Arif	2026	Taylor & Francis CRC
16	Introduction to Soil Nanotechnology: Principles and Applications	Akhtar Hameed and Muhammad Zahid	Akhtar Hameed, Rana Binyamin, Abdul Rehman, Hira Akhtar, Hafiz Muhammad Usman Aslam and Faizan Ali	2026	Taylor & Francis CRC
17	Impacts of Nanomaterials on Soil Health and Productivity	Akhtar Hameed and Muhammad Zahid	Najma Majeed, Ahmad Mahmood, Shakeel Ahmad, Muhammad Imran, Muhammad Zeeshan Gulzar and Akhtar Hameed	2026	Taylor & Francis CRC
18	Nanomaterials for Soil Fertility Enhancement	Akhtar Hameed and Muhammad Zahid	Akhtar Hameed, Rana Binyamin, Subhan Ali, Hira Akhtar, Muhammad Waqar Alam and Nighat Raza	2026	Taylor & Francis CRC
19	Nanotechnology for Soil Erosion Control and Land Rehabilitation	Akhtar Hameed and Muhammad Zahid	Faizan Ali, Akhtar Hameed, Abdul Rehman, Nasir Ahmad Rajput, Muhammad Atiq and Nighat Raza	2026	Taylor & Francis CRC
20	Nanotechnology for Soil Carbon Sequestration and Climate Change Mitigation	Akhtar Hameed and Muhammad Zahid	Najma Majeed, Muhammad Imran, Akhtar Hameed, Waseem Hassan, Shakeel Ahmad and Mudassar Yasin	2026	Taylor & Francis CRC
21	Regulatory and Environmental Considerations of Soil Nanotechnology	Akhtar Hameed and Muhammad Zahid	Wazir Ahmed, Umair Riaz, Waseem Hassan, Muhammad Imran, Shakeel Ahmed and Hasan Riaz	2026	Taylor & Francis CRC

22	Future Perspectives and Challenges in Soil Nanotechnology Research	Akhtar Hameed and Muhammad Zahid	Waseem Hassan, Sundas Riaz, Umair Riaz, Shakeel Ahmad, Muhammad Imran and Hasan Riaz	2026	Taylor & Francis CRC
23	Nanomaterial-Based Soil Amendments for Improved Crop Production	Akhtar Hameed and Muhammad Zahid	Amar Matloob, Farhena Aslam, Muhammad Adeel Akram, Hamna Iftikhar, Diyan Rashid and Ahmad Mehmood	2026	Taylor & Francis CRC
24	Biotechnological Approaches in Mango Breeding	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Muhammad Faisal, Muhammad Usman, Muhammad Sarwar Khan, Bilquees Fatima and Faiz-Ur-Rahman	2025	Apple Academic Press (AAP) Co-authored: CRC press (Taylor and Francis)
25	Microwave-Assisted Zeolite Synthesis for Biomedical Applications	Inamuddin, Tariq Altalhi, Arwa Alrooqi, Maha Khan	Muhammad Saria, Zeeshan Taj, Sumreen Hayat, Muhammad Saqalein, Razia Noreen, Muhammad Faisal and Saima Muzammil	2026	Materials Research Foundations
26	Edible Films for Postharvest Quality Management of Fresh Fruits and Vegetables	S Ali, SA Mir, BN Dar, S Ejaz	Farzana Rafeeq, Sami Ullah, Kashif Razzaq, Uzman Khalid, Tanveer Hussain and Seema Kanwal	2025	CRC Presa, Taylor & Francis Group
27	The Healing Breath: Essential Oils and their Impact on Respiratory Infections	Ahrar Khan, Riaz Hussain, Saleha Tahir, Naila Ghafoor	Rizwana Sultan, Muhammad Jabbar, Ahsan Anjum, Muhammad Mubashir Ashfaq, Yasir Ali Khan, Saman Mehmood, Anizah Arif, Eisha Bahar and Safdar Ali	2025	Unique Scientific Publishers, Faisalabad, Pakistan

28	Precision Spraying and Targeted Pesticide Application	Kamel Ahmed Abd-Elsalam, Aftab Ahmad	Subhan Ali, Akhtar Hameed, Abdul Rehman, Rana Binyamin, Hafiz Muhammad Usman Aslam, Muhammad Waqar Alam and Rabia Rasheed	2026	CRC Press
29	Artificial Intelligence-Powered Plant Protection Systems: Ethical Considerations, Challenges and Emerging Trends	Kamel Ahmed Abd-Elsalam, Aftab Ahmad	Hafiz Muhammad Usman Aslam, Saba Aslam, Akhtar Hameed, Muhammad Zeeshan Mansha, Hasan Riaz and Faizan Ali	2026	CRC Press
30	Integration of AI with Precision Agriculture for Targeted Pest Control	Kamel Ahmed Abd-Elsalam, Aftab Ahmad	Akhtar Hameed, Subhan Ali, Hafiz M Usman Aslam, Muhammad Waqar Alam, Faizan Ali, Rana Binyamin and Muhammad Umair Rafiq	2026	Taylor & Francis CRC Press
31	Ferrite Nanomaterials for Wastewater Treatment	Z Evenson	Muhammad Ikram, Ali Haider, Sawaira Moeen	2026	Springer Nature
32	Chitosan Nanoparticles for Brucellosis Treatment	Z Evenson	Haider A, Shahzadi I, Kiran S and Shakoor K	2026	Cham: Springer Nature Switzerland
33	CRISPR-Based Gene Editing: A Solution for Global Food Security	Shakeel Ahmad, Asif Ali Khan, Muhammad Arshad Javed	Shakeel Ahmad, Asif Ali Khan and Muhammad Arshad Javed	2025	Taylor & francis group
34	Mango Maturity Indices and Harvesting Methods	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Rashid Iqbal Khan, Sajid Ali, Ayesha Maryam, Rana Naveed Ur Rehman, Mazhar Abbas, Riaz Hussain, Khalid Hussain, Kashif Razzaq, Muhammad Azeem Sabir, Muhammad Fasih Khalid and Sajjad Hussain	2025	Apple Academic Press

35	Training and Pruning in Mango	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Farzana Rafeeq, Sami Ullah, Kashif Razzaq and M Amin	2025	Apple Academic Press
36	Postharvest Treatments, Storage, and Ripening	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Kashif Razzaq, Muhammad Amin and Ambreen Naz	2025	Apple Academic Press
37	Mango Small Tree System	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Muhammad Amin, Kashif Razzaq, Steven A Oosthuyse, Ishtiaq A Rajwana and Muhammad Nafees	2025	Apple Academic Press
38	Propagation and Nursery Management in Mango	Sajjad Hussain, Kamrun Nahar, Ishtiaq A Rajwana, Sezai Ercisli, Shakeel Ahmad	Kashif Razzaq, Ishtiaq A Rajwana, Sami Ullah, Riaz Hussain and Muhammad Iqbal	2025	Apple Academic Press
39	Fading Colours: Human and Natural Influences on the Decline of Butterfly Diversity	Alessio Vovlas	Unsar Naeem-Ullah, Ayesha Tariq, Mirza Abdul Qayyum, Muhammad Asif Farooq, Farrukh Baig and Hafsah Ghaffar	2025	IntechOpen
40	Innovative Approaches in Insect Pest Control	Habib Ali, Yutao Xiao	Muhammad Nadir Naqqash, Nimra Batool and Muhammad Asif Farooq	2025	Tylor & Fancis Group
41	Vertical Farming: An Innovative Solution for Urban and Landless Farming	Jameel M Al-Khayri Ali Mohd Yatoo Shri Mohan Jain Suprasanna Penna	Muhammad Shahid, Amna Saleem, Muhammad Farrukh Saleem, Muhammad Sarwar and Nabeel Ahmad Ikram	2025	Springer Nature Singapore Pte Ltd
42	Impact of transgenic crops on food security in developing countries	Sajid Fiaz, Muhammad Abu Bakar Saddique	Rao Muhammad Ikram, Muhammad Ayaz Khan, Hasan Riaz and Hafiz Muhammad Usman Aslam	2026	Wiley

43	Weed Management in Vegetable Crops	Zafar Iqbal, Muhammad Akbar Anjum, Sezai Ercisli and Saeed Rauf	Farooq O, RM Ikram, I Shabbir, H Dogan and S Ahmad	2025	Springer
44	Functional and pharmacological activities of berries in prevention of chronic diseases	Anamika Chauhan, Fakhar Islam, Hafiz Suleria and Ali Imran	Firdous N, F Jamil, S Khalil, U Farooq, A Batool, N Raza and A Aslam	2026	Academic Press
45	Exploring the anticancer properties of berries and their mechanisms	Anamika Chauhan, Fakhar Islam, Hafiz Suleria and Ali Imran	Batool A, U Farooq, N Firdous, A Shafi, H Saqib, A Sayal, R Akram, H Raza and A Shaheer	2026	Academic Press
46	Insect Pollinators and Food Security Under the Changing Climate	Mohamed Behnassi, Mirza Barjees Baig, Himangana Gupta, Rachid Sabbahi, Gitanjali Nain Gill, Mahjoub El Haiba	Mudssar Ali, Fawad Zafar Ahmad Khan and Muhammad Awais Ahmad	2025	Springer Nature Link
47	Integrated Pest and Pollinator Management Under the Changing Climate	Mohamed Behnassi, Mirza Barjees Baig, Himangana Gupta, Rachid Sabbahi, Gitanjali Nain Gill, Mahjoub El Haiba	Fawad Zafar Ahmad Khan, Mudssar Ali and Danyal Haider Khan	2025	Springer Nature Link
48	Sisal (Agave sisalana Perrine) Breeding	Khaled F M Salem, Jameel M Al-Khayri, Shri Mohan Jain	Muhammad Shahzad, Muhammad Ahsan Qureshi, Sohail Kamaran, Hafiz Amjad Ali Rana, Muhammad Iftikhar and Gulfam Hassan	2025	Springer
49	Nurturing Resilience: Unraveling the Transformative Power of Water Governance Through Scientific Inquiry	Umair Riaz, Laila Shahzad, Fernanda Maria Policarpo Tonelli	Majeed N, Ali A, Athar M, Sehar S, Sanaullah M, Iqbal A, Jamshaid MU, Riaz U, Ahmad W	2026	Apple Academic Press

			Arif M, Imran M, Kataoka R, Asghar W and Mahmood A		
50	Mineral Nutrition of Vegetable Crops	Z Iqbal et al	Z Batool, MB Hussain, N Ahmad and W Hassan	2025	Springer Nature Singapore Pte Ltd
51	Climate Change: Causes, Effects and Solutions for Agriculture and Food Security of Pakistan	Islam, R	Sajid Masood, Niaz Ahmed and Muhammad Baqir Hussain	2025	CRC Press, A Taylor & Francis
52	Irrigation Management in Mango Orchards	S Hussain, K Nahar, IA Rajwana, S Ercisli, S Ahmad	N Ahmed, S Danish, AG Grewal, F Ilyas, S Masood, MA Ali, MB Hussain, S Ahmad, M Imran and S Hussain	2025	Apple Academic Press
53	Selenium Biofortification in Wheat: A Way Forward Toward Nutritional Security	AN Shah, S Fiaz, M Aslam, J Iqbal, A Qayyum	Ismail MS, F Nawaz, MA Shehzad, W Hassan, R Saleem, AN Shah and MB Hussain	2025	John Wiley & Sons Ltd
54	Sustainable Packaging Solutions: Food Packaging	Ahmed Alhussaini Hamad, Pallavi SIngh, Dipali Saxena, AK Haghi	Muhammad Sibt-e-Abbas, Rimsha Umar and Salman Khalil	2025	IGI Global Scientific Publishing
55	Sustainable Utilization and Valorization of Sugar Industry Waste Products	H Bader ul Ain, F Saeed, T Tufail, and H Ansar Rasul Suleira	Akram R, U Farooq, M Usman, S Ahmad, A Batool, N Firdous and H Saleem	2025	Springer Nature, Cham
56	Insect-Borne Diseases of Mango	Sajjad Hussain, Kamrum Nahar, Ishtiaq A Rajwana, Sezai Erci?li, Shakeel Ahmad	Tayyabah Khan, Hafiz Azhar Ali Khan, Adnan Akhter, Waheed Anwar, Naeem Iqbal and Shakeel Ahmad	2026	CRC Press
57	Rural industry development: Implementing a whole of chain approach	Mubashir Mehdi	Mubashir Mehdi	2025	Cambridge Scholar Publishing UK

58	The Multifaceted Biocontrol Mechanisms of Endophytic Fungi	Abd-Elsalam, KA, Amr H Hashem (eds)	Mehmood MA, Rauf A, KA Abd-Elsalam, M Ashfaq, SB Kayani and S Javeed	2025	Springer, Nature, Singapore
59	Innovative Approaches to Combat Plant Pathogens Through Rhizosphere Engineering with Metal Nanoparticles	Abd-Elsalam, KA	Faheem F, N Ijaz, M Ashfaq, M Shaaban, MM Ahmed, SB Kayani and MA Mehmood	2025	Springer, Singapore
60	Endophytic Fungi: A Natural Approach to Plant Growth Promotion and Sustainable Agriculture	Abd-Elsalam, KA, Amr H Hashem (eds)	Ashfaq M, I Mushtaq, KA Abd-Elsalam, M A Mehmood and SB Kayani	2025	Springer, Nature, Singapore
61	Artificial Intelligence and Sensing Techniques for the Management of Insect Pest and Diseases in Cotton	Abd-Elsalam, KA and A Ahmad	Ashfaq M, I Mushtaq, SB Kayani, MM Ahmed, M Shaaban, NZ Khan and MA Mehmood	2026	CRC Press Boca Raton
62	Culture Maintenance and Propagation of Biocontrol Agents for Biofungicide Formulation	Abd-Elsalam, KA and MA Mehmood	Iqbal MM, B Tian, MA Mehmood and M Ashfaq	2026	CRC Press Boca Raton
63	Plant Microbe Interaction for Sustainable Agriculture	Shaaban, M (eds)	Ashfaq M, I Mushtaq, SB Kayani, M Shaaban, MM Ahmed and MA Mehmood	2025	Springer, Cham
64	Carbon Nanotubes in Agriculture Specifications and Applications Nanomaterial-Plant Interactions	Manzer H Siddiqui, M Nasir Khan and Soumya Mukherjee	Umair Riaz, Sameen Salman, Laila Shahzad and Nabeeha Lodhi	2025	Elsevier

2.5 CONFERENCES, SEMINARS AND WORKSHOPS

2.5.1 SEMINARS/WEBINARS

Sr. No.	Date	Title	Department / Institute	National / International
1	31-07-2025	"Post-2022 Flood Scenario, Insights & Way Forward" Event	Department of Agronomy, MNSUAM	National
2	22-08-2025	Seminar on “GMO Corn Dilemma in Pakistan: Innovations vs. Implications	Institute of Plant Breeding and Biotechnology	National
3	26-08-2025	Supply Chain Management and Value Addition of Jaman Fruit (Syzygium cumini)	NRPU Project #16814	National
4	07-08-2025	Session on Citizen Science in Pollination	MNSUAM	International
5	23-08-2025	Agribusiness Seminar	MNSUAM	National
6	02-10-2025	Awareness Seminar on Global Iodine Deficiency Prevention Day	Dept. of Human Nutrition & Dietetics	National
7	07-10-2025	Breast Cancer Awareness Seminar 2025	Faculty of Veterinary and animal Sciences	National
8	07-10-2025	World Egg Day celebrations	Faculty of Veterinary and animal Sciences	National
9	16-10-2025	World Food Day Seminar & Academic Competitions	Faculty of Food & Home Sciences	National
10	21-10-2025	Workshop to suggest possible ways for Post Flood and Agriculture Recovery	MNSUAM & Doaba Foundation	National
11	04-11-2025	Smog Awareness Seminar & Walk ("Clean Air, Safe Future")	Dept. of Soil & Environmental Sciences	National
12	14-11-2025	Diabetes: Know your Risk, know your Response	Faculty of Veterinary and animal Sciences	National

13	18-11-2025	People, Nature and Harmony: Pakistan Biosphere Reserves in Focus	UNESCO Chair, MNSUAM;	National
14	03-12-2025	Seminar on Developing Emotional Intelligence	MNSUAM	National
15	05-12-2025	World Soil Day 2025 ("Healthy Soils, Healthy Cities")	Dept. of Soil & Environmental Sciences	National
16	09-12-2025	Human Trafficking Through Various Traps	Additional Senior Tutor	National
17	19-12-2025	SME Financing and Banking Inequality	Department of Agribusiness and Entrepreneurship	National
18	19-12-2025	Basic Life Support and CPR Training: Saving Life through Timely Actions	Public Health Society	National
19	12-12-2025	Seminar "Cyberspace and Extremism: Building a Resilient Pakistan"	Office of the Senior Tutor	International
20	07-01-2026	Antibiotic Stewardship: Infection Prevention and control in era of AMR	Faculty of Veterinary and animal Sciences	National
21	07-01-2026	Drug Awareness and Prevention	Office of Student Affairs	National
22	08-01-2026	Road Safety and Public Health: Saving Lives Beyond the Hospital	Public Health Society	National
23	27-01-2026	Learn Smart Reference Management	PASTIC & MNSUAM	National
24	09-02-2026	International Seminar on Interdisciplinary & Intersectional Sustainability Research	UNESCO Chair, MNSUAM	International
25	09-02-2026	Level Up Ramadan	Directorate of Student Affairs	National
26	18-02-2026	Seminar on Counter Narcotics Awareness	Directorate of Student Affairs & Senior Tutor	National

27	18-03-2026	Session on Drone-Based Agricultural Solutions	MNSUAM	International
28	26-03-2026	Seminar "Water and Industrial Equity" & WRDC Inaugural Meeting	MNSUAM	National
29	26-04-2026	Seminar on Environmental Awareness & Tree Importance	Plant for Life Society & Green Youth Movement Club	National
30	28-04-2026	Medical Seminar on Joint Diseases	MNSUAM	National
31	29-04-2026	Awareness Seminar "Vaccines for Every Generation" (World Immunization Week)	MNSUAM	National
32	07-05-2026	Webinar on Sustainable Development Goals & Youth	Dept. of Soil & Environmental Sciences	National
33	10-05-2026	Seminar on Sustainable Agriculture & Global Cotton Standards	MNSUAM	National
34	15-05-2026	World Migratory Bird Day (Seminar & Plantation Drive)	MNSUAM	National
35	19-05-2026	Seminar on Electronic Waste Management	Dept. of Soil & Environmental Sciences	National
36	06-05-2026	World Environment Day 2026	Dept. of Soil & Environmental Sciences	National
37	19-06-2026	Anti-Drug Awareness Seminar (International Day against Drug Abuse & Illicit Trafficking)	Directorate of Student Affairs, MNSUAM	National

2.5.2 CONFERENCES

Sr. No.	Date	Title	Department / Institute	National / International
1	10-02-2026 11-02-2026	3rd International Conference on Food Security & Value Chain Systems (ICFSVC-2026)	The Faculty of Social Sciences and Humanities	International
2	08-04-2026 09-04-2026	3rd International Conference on Plant Based Food: Global Perspectives of Sustainable Food Systems (ICPBF-2026)	Faculty of Food and Home Sciences	International
3	20-05-2026	6th International Conference on Bee Pollination & Conservation (World Bee Day)	Institute of Plant Protection	International
4	21-05-2026 22-05-2026	Two-Day International Biodiversity Conference (World Biodiversity Day 2026)	UNESCO Chair, MNSUAM	International
5	10-06-2026	International Conference on "Sustainable Cotton Production in Pakistan" (2-day)	Plant Breeding and Biotechnology	International

2.5.3 COMPETITIONS

Sr. No.	Date	Title	Department
1	24-12-2025	Interdepartmental Trilingual Declamation Contest	MNSUAM students
2	12-02-2026	3rd AFS Venture Spark-Business Plan Competition 2026	BIAEC
3	16-04-2026	Innovative Juice Making Competition	Dept. of Home Sciences & Business Incubation Center
4	24-04-2026	Inter-University Literary Competition "Sahar Intisab 2"	MNSUAM
5	14-05-2026	International Day of Plant Health (Walk & Poster Competition)	Dept. of Plant Pathology
6	17-05-2026	MNSUAM Students Clinch 19 Positions at Lyallpur Art & Lit Fest 2026	MNSUAM students

2.5.4 FACULTY AND STAFF TRAINING/WORKSHOPS

Sr. No.	Date	Title	Department
1	17-07-2025	Drone Pilot Training Course	Department of Outreach and Continuing Education
2	21-07-2025	Workshop on Role of Plantation in Climate Change Mitigation	Department of Soil and Environmental Sciences
3	17-10-2025	Training for "Grow More Wheat Campaign 2025–26"	Faculty of Agriculture and Environmental Sciences
4	03-11-2025	Workshop "Locally Led Flood Recovery: Demand for Grants, Not Loans"	MNSUAM
5	06-11-2025	Fundamentals of Sketching: Module-I	Department of Home Science
6	21-11-2025	Use of Turnitin for Similarity Index/ Plagiarism and HEC Policy	QEC
7	08-12-2025	One Day Training Workshop on Fehm-ul Quran	NAHE, HEC
8	08-12-2025	Hands on Training on Extraction Techniques of Edible Oil for Food Chain	Department of Food Science and Technology
9	16-12-2025	Seed Production System and Supply Chain	Institute of Plant Breeding & Biotechnology
10	20-12-2025	Academia-Industry Linkages Session	Soil and Environmental Sciences
11	18-12-2025	Sustainable Equifers through Climate-Resilient Agriculture	MNSUAM
12	01-01-2026	Hands-On Training Workshop on Crop Growth Modeling (DSSAT)	UNESCO Chair, MNSUAM

13	02-01-2026	Sustainable Development Goals	Department of Climate Change and Outreach
14	05-01-2026	How to host an event and how to conduct parliamentary debates	Debating Club and Student Council
15	07-01-2026	Crop Growth Modeling using the Decision Support System for Agro-Technology Transfer (DSSAT)	Department of Climate Change and Agronomy
16	28-01-2026	Wow to Supervise Ph.D. Students	Directorate of graduate Studies
17	09-02-2026	Understanding and Countering gender based hate speech	Office of Senior Tutor
18	17-02-2026	Career Planning for Academicians: The Road to Success	MNSUAM
19	01-03-2026	Workshop launching SMALL PAK Project (Climate-Resilient Agriculture)	Faculty of Social Science and Humanities
20	12-03-2026	Training Session on HEC Faculty Exchange Program	MNSUAM
21	01-04-2026	Training on Plant Breeders' Rights	Institute of Plant Breeding & Biotechnology
22	05-04-2026	Workshop on Regenerative Agriculture & Sustainable Practices	Faculty of Agriculture and Environmental Sciences
23	15-04-2026	21st Scientific Writing Certificate Training	Directorate of Graduate Studies
24	17-04-2026	Training Workshop on Regenerative Agriculture & Vermicomposting	Faculty of Agriculture and Environmental Sciences
25	27-04-2026	Training of Trainers on Water Conservation (PHEC Cluster)	Faculty of Agriculture and Environmental Sciences

26	03-05-2026	Two-Day Wheat Quality Control Training Workshop	Faculty of Agriculture and Environmental Sciences
27	13-05-2026	Three-Day Halal Lead Auditor Training Workshop	MNSUAM
28	24-05-2026	Seed Industry Experts Professional Training Session	Plant Breeding and Biotechnology
29	08-06-2026	Training Workshop on Urban Forestry (3-day)	Horticulture
30	22-06-2026	Faculty Training Workshop on Outcome-Based Education (OBE)	Quality Enhancement Cell (QEC), MNSUAM
31	22-06-2026	Biospheric Egalitarianism	UNESCO Chair, MNSUAM

2.5.5 CELEBRATIONS/INTERACTIVE SESSIONS

Sr. No.	Date	Title	Department/ Institute
1	14-07-2025	78th Pakistan Independence Day	Directorate of Student Affair and Senior Tutor
2	02-08-2025	Inauguration ceremony (NSDRA / seed regulatory event)	MNSUAM
3	04-09-2025 05-09-2025	Ashra Rehmat-ul-Lil-Alameen 2025 (Seerat conferences, Naat & Qiraat)	Qirrat & Naat Club, MNSUAM
4	12-09-2025	Session on "Innovation & Commercialization" at UAF, Faisalabad	ORIC, BIAEC
5	15-09-2025	Welcome of Prof. Dr. Asif Ali (T.I.) as Vice Chancellor (3rd tenure)	MNSUAM
6	05-12-2025	World Soil Day	Department of Soil and Environmental Sciences
7	19-12-2025	Chief Minister Laptop Scheme Ceremony	MNSUAM
8	23-12-2025	Fourth Annual Convocation	MNSUAM

9	23-12-2025	5th Annual Chrysanthemum Exhibition & Floral Arrangements	Department of Horticulture
10	31 Dec 2025 - 05 Jan 2026	Annual Sports Gala 2025-26	MNSUAM
11	07-01-2026	Awareness Camp "Embrace Wellness: Weight Management"	MNSUAM
12	05-02-2026	Kashmir Solidarity Day (Skit, Declamation, Plantation & Walk)	MADS, Debating Club, Plant for Life Society
13	10-02-2026	Meena Bazar	Jamine Court
14	02-04-2026	Inspiring Lecture on Faith, Character & Success by Saeed Anwar	MNSUAM
15	07-04-2026	Awareness Walk on World Health Day	Faculty of Veterinary and Animal Sciences, Public Health Society
16	22-04-2026	International Mother Earth Day 2026	MNSUAM
17	23-04-2026	GRC Session on IRSIP Batch-59 Applications	Directorate of Graduate Studies
18	06-05-2026	Solidarity Walk – Operation Maarka-e-Haq	MNSUAM
19	11-05-2026	International Mother's Day Celebration	Directorate of Public Relations
20	18-06-2026	Launch Ceremony for Dr. Amjad Saqib's Book "Molu Musalli"	MNSUAM

2.5.6 AWARDS WON

Sr. No.	Title of Award/ Honor	Forum/ Conferring Authority/ Organization	Name, Designation and Department of Award Winner
1	Distinction Award	Chinese Academy of Agriculture Sciences, China	Dr. Umair Riaz, Associate Professor, Soil & Environmental Sciences

2	Winner of World Startup Championship 2025 (Agriculture and Food System Category)	Association of Private Sector Universities of Pakistan (APSUP); SEE Pakistan-2025	Engr. Dr. Umair Sultan, Assistant Professor, Dept. of Agricultural Engineering
3	Drone Pilot Certification Program	MNSUAM & Alkaram Farm Technologies	Engr. Dr. Umair Sultan, Assistant Professor, Dept. of Agricultural Engineering
4	First winner position 2026 Venture Spark 2026 (Agricultural Engineering Engineering/Computer Sciences and Information Technology)	Venture Spark 2026, MNSUAM	Engr. Dr. Sarfraz Hashim, Associate Professor, Dept. of Agricultural Engineering
5	Two Weeks Training on disaster risk reduction	IMH, China	Engr. Dr. Muhammad Saifullah, Associate Professor, Dept. of Agricultural Engineering
6	High Impact Publication and Citation Award-2025	Vice Chancellor \MNSUAM	Prof. Dr. Abdul Ghaffar Professor/Chairman Department of Agronomy

2.6 RESEARCH COLLABORATIONS

2.6.1 INDUSTRIAL RESEARCH PROJECT AWARDS (2025-26)

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Carbon Quantum Dots Mediated Drugs Management of Common Scab of Potato	Dr. Akhtar Hameed, Assistant Professor, Plant Protection	3.406	Fair Field Enterprise, Multan

2	Evaluation of Cherry Tomato & Capsicum (F1) under Semi-Controlled Greenhouse in Semi-Arid Climates	Dr. Nazar Faried, Associate Professor, Horticulture	1.223	Harvest Seed Corporation (Pvt. Ltd.), Larkana
3	Data-Driven Smart Media Monitoring and Decision Support System for Climate Smart Greenhouse	Dr. Aamir Hussain, Associate Professor, Institute of Computing	2.57	Spurt International (Pvt.), Faisalabad
4	From Waste to Wealth: Entomo-compost and Energy Recovery from Small-Ruminant Gut Residues	Dr. Muhammad Nadir Naqqash, Assistant Professor, Entomology	4.50	KADYM FOOD CO., Spain
5	Establishment and Propagation of Miscanthus as a Pulp and Energy Crop (Phase-II)	Dr. Muhammad Baqir Hussain, Associate Professor, SES	12.89	Bulleh Shah Packages Limited (BSPL), Lahore
6	Management of Eddy Covariance Flux Towers in Multan and Jalalpur Pirwala and Support in Canal Flow Measurement in Khanewal	Dr. Muhammad Saifullah, Associate Professor, Agri Engineering	6.33	FAO, United Nations
7	Data Analysis, Crop Mapping, Water Requirement and Productivity Assessment in Bahawalpur and Bahawalnagar	Dr. Muhammad Saifullah, Associate Professor, Agri Engineering	5.61	FAO, United Nations
8	Water Accounting for the Indus Basin, Punjab Province, and Sindh Province in Pakistan	Dr. Muhammad Saifullah, Associate Professor, Agri Engineering	3.20	FutureWater Foundation, Wageningen, Netherlands under Food and Agriculture Organization of the United Nations (FAO) - GCF Funded Project
9	Development and Promotion of Hybrid Cotton Seed Production for Increasing Quality and Quantity of Cotton in Pakistan (Revised/Re-awarded 09-Jun-2026)	Dr. Zulqurnain Khan, Assistant Professor, IPBB	54.807	Guard Agricultural Research & Services, Multan & BRI, CAAS & CRI, China

Eight projects worth PKR 39.73 million represent new industrial/contract awards during 2025-26; the hybrid cotton seed production project was revised and re-awarded on 09 June 2026 with an enhanced budget of PKR 54.807 million (an increase of PKR 20.89 million over its original allocation).

2.6.2 ONGOING INDUSTRIAL PROJECTS

Sr. No.	Project Title	Principal Investigator	Total Amount (Million PKR)	Funding Agency
1	Water Regeneration & Environmental Sustainability	Dr. Mahmood Alam, Lecturer, IPBB	5.00	Nestlé, Pakistan
2	Colorful Cotton Cultivation: Unveiling Genomic Secrets	Dr. Akash Fatima, Assistant Professor, IPBB	5.34	Mahmood Group Textiles, Multan
3	Micropropagation and Varietal Improvement of Sugarcane Against Red Rot Through Tissue Culture	Dr. Plosha Khanum, Assistant Professor, IPBB	10.70	Indus Sugar Mills, Rajanpur
4	EcoVigilance: Innovating Dual-Action Traps for Monitoring and Management of Aedes (Dengue) Mosquitoes in Multan	Dr. Farrukh Baig, Assistant Professor, Entomology	1.26	Hussain Salman Chemicals, Multan
5	Development and Promotion of Hybrid Cotton Seed Production for Increasing Quality and Quantity of Cotton in Pakistan (Revised/Re-awarded 09-Jun-2026)	Dr. Zulqurnain Khan, Assistant Professor, IPBB	54.81	Guard Agricultural Research & Services, Multan
6	State of the Art Mango Drying Facility at MNSUAM	Dr. Muhammad Sibt-e-Abbas, Assistant Professor, FST	18.72	Export Development Fund (EDF) / TDAP
7	Current Status of Insecticide Resistance in Cotton Whitefly (Bemisia tabaci) in Major Cotton Growing Area of Punjab	Dr. Naeem Iqbal, Associate Professor, Entomology	4.10	CropLife Pakistan Association
8	Preparation and Characterization of Biostimulant Enriched Polymer Coated Urea (BSE-PCU) for Different Soils	Dr. Wazir Ahmed, Associate Professor, SES	1.23	Nice International Crop Excellence (Pvt.) Ltd. Multan

9	Establishment of Carbon Offsetting Plantation under Climate Change Scenario	Dr. Muqarrab Ali, Associate Professor, Climate Change	4.00	Sui Northern Gas Pipelines Limited (SNGPL)
10	Risk-based Assessments of Aquifer Vulnerability for Khanewal Study Area	Prof. Dr. Irfan Ahmad Baig, Dean FSSH	3.04	FAO, United Nations
11	Beautification and Pollution Control of Ali Cottage Housing Complex Through Development and Execution of Landscape Design	Dr. Gulzar Akhtar, Associate Professor, Horticulture	1.24	Ali Cottage Housing (Opal Marketing), Multan
12	Establishment of a Mobile Laboratory System for Real-Time Assessment of Soil and Water Quality	Dr. Umair Riaz, Associate Professor, Climate Change / SES	1.66	EMC Sciences, Multan
13	Management of Eddy Covariance Flux Towers in Multan and Jalalpur Pirwala and Canal Flow Measurement in Khanewal	Dr. Muhammad Saifullah, Associate Professor, Agri Engineering	6.33	FAO, United Nations
14	Carbon Quantum Dots Mediated Drugs Management of Common Scab of Potato	Dr. Akhtar Hameed, Assistant Professor, IPP	3.41	Fair Field Enterprise, Multan
15	Evaluation of Cherry Tomato & Capsicum (F1) under Semi-Controlled Greenhouse in Semi-Arid Climates	Dr. Nazar Faried, Associate Professor, Horticulture	1.22	Harvest Seed Corporation (Pvt. Ltd.), Larkana
16	Data-Driven Smart Media Monitoring and Decision Support System for Climate Smart Greenhouse	Dr. Aamir Hussain, Associate Professor, Faculty of Computing	2.57	Spurt International (Pvt.), Faisalabad
17	From Waste to Wealth: Entomo-compost and Energy Recovery from Small-Ruminant Gut Residues	Dr. Muhammad Nadir Naqqash, Assistant Professor, Entomology	4.50	KADYM FOOD CO., Spain
18	Establishment and Propagation of Miscanthus as a Pulp and Energy Crop (Phase-II)	Dr. Muhammad Baqir Hussain, Associate Professor, SES	12.89	Bulleh Shah Packages Limited (BSPL), Lahore

19	Data Analysis, Crop Mapping, Water Requirement and Productivity Assessment in Bahawalpur and Bahawalnagar Districts	Dr. Muhammad Saifullah, Associate Professor, Agri Engineering	5.61	FAO, United Nations

2.7 INNOVATIONAL COMMERCIALIZATION

2.7.1 FILING OF PATENTS

The ORIC facilitated the following faculty member in completing documentation for filing of patents during 2025-26.

Sr. No.	Name of Lead Inventor	Department / Institute	Innovation	National / International
1	Dr. Mudssar Ali, Associate Professor	Department of Entomology	BeeSol Space - A Biodegradable Nesting Space for Solitary Bees	National

2.7.2 REVENUE GENERATED

The ORIC has been facilitating faculty for the execution of national/international/industrial projects, commercialization activities, lab training and conduct of various events that involve revenue generation. A summary of revenue generated by ORIC from these services during the reported year is as follows:

Particulars	Revenue (Million PKR)
Sponsorships for events (estimated worth / in-kind)	56.51
ORIC overhead from research projects	14.83
Consultancies provided	0.43
Lab sample analysis	0.48
Total	**72.25**

2.7.3 PROMOTION OF RESEARCH AND CONSULTANCY CULTURE

The ORIC is striving hard to promote the culture of research and consultancy by creating a research ecosystem. During the reported year, faculty members provided consultancies to various agencies/industries, including Praxsys Associates (PA), Pakistan (Evaluation of the Bio-fortified Zinc Wheat Project of the Global Alliance for Improved Nutrition – GAIN), the Farmers Development Organization (FDO), Pakistan (Capacity Building on Regenerative Agriculture and Vermicomposting), and progressive farmers of the region. Moreover, keeping in view the need of the local community, especially the farmers and industrialists, this University has taken the following revolutionary steps:

- All faculty members of the University are encouraged to take part in need-based research and consultancy
- Students are motivated for research and consultancy in the form of paid work
- Liaisons are being established among the researchers and extension workers to work for a common target such as the South Punjab Agriculture Forum

2.7.4 MISCELLANEOUS ACTIVITIES

- Provision of testing and lab analysis services to researchers/farmers/industry
- ORIC facilitated the faculty to seek travel grants and research funding from various agencies
- Meetings of the Ethical Institutional Review Board were held to review the research proposals with respect to ethical and biosafety/biosecurity considerations prior to submission to funding agencies
- Meetings of the ORIC Steering Committee were held to review the progress and seek guidance from industry members for better functioning of ORIC
- Regular fortnightly meetings of the Central Lab Advisory Committee were convened for smooth working of the Central Lab system
- The ORIC annual report was presented to the Board of Advanced Studies and Research and subsequently approved by the Syndicate

2.8 RESEARCH LINKAGES

2.8.1 INTERNATIONAL

Sr. No.	Organization	Country	Signing Date
1	Kirsehir Ahi Evran University	Türkiye	24-07-2025
2	Xinjiang Agricultural Vocational & Technical University (XAVTU) / Pakistan TEVT Industrial Center of Excellence	China	21-10-2025
3	Sekolah Tinggi Ilmu Ekonomi Tri Dharma Nusantara, Makassar	Indonesia	03-11-2025
4	Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari	Indonesia	03-11-2025
5	Sekolah Tinggi Ilmu Ekonomi Amkop, Makassar	Indonesia	03-11-2025
6	Universitas Lamappoleonro, Soppeng	Indonesia	03-11-2025
7	Universitas Megarezky, Makassar	Indonesia	03-11-2025
8	Universitas Sawerigading, Makassar	Indonesia	03-11-2025
9	Xichang University & Institute of Urban Agriculture, CAAS	China	02-12-2025

10	Aspire Pakistan Inc.	USA	09-12-2025
11	Weifang Engineering Vocational College	China	16-12-2025
12	South West University of Science and Technology	China	15-01-2026
13	Walailak University	Thailand	16-01-2026
14	Azerbaijan State Agricultural University (ADAU), Ganja	Azerbaijan	01-06-2026
15	Tarim University	China	17-06-2026
16	Scientific Research Institute of Agriculture, Republic of Karakalpakstan	Uzbekistan	30-06-2026

2.8.2 NATIONAL

Sr. No.	Organization	Signing Date
1	Govt. Pak-German Polytechnic Institute for Agriculture Technology (PGICA)	22-08-2025
2	University of Agriculture, Faisalabad	24-08-2025
3	Mian Fazal Rehman Hospital, Multan	05-09-2025
4	Save Our Society Foundation (SOSF), Pakistan	26-09-2025
5	Harvest Seed Corporation (Pvt. Ltd.), Larkana, Sindh	16-10-2025
6	Fair Field Enterprise, Multan	23-10-2025
7	Tara Group, Pakistan	18-11-2025
8	Islamia University, Bahawalpur	29-12-2025
9	Bulleh Shah Packaging (Pvt.) Ltd., Lahore	31-01-2026
10	Akora Seed Company, Akora Khattak, KPK	13-02-2026
11	Jullundur Seed Corporation, Rahim Yar Khan	13-02-2026
12	Petal Seed Company, Mardan, KPK	13-02-2026
13	University of Agriculture, Swat	13-02-2026
14	Pakistan Japan Socio-Economic Association, Lahore	26-03-2026
15	Molana Tariq Jamil Foundation, Khanewal	09-03-2026
16	Farmers Development Organization (FDO), Multan	30-03-2026
17	Govt. Sadiq College Women University, Bahawalpur	15-04-2026
18	IFANCA Pakistan Halal Apex (Pvt.) Ltd.	12-05-2026
19	Raza Farm, Pakistan	16-06-2026
20	Akhuwat Pakistan	18-06-2026

2.9 UNIVERSITY RANKINGS

MNSUAM is well recognized in the agricultural sector that was the key objective of vision 2030. MNSUAM achieved considerable success both nationally and internationally. Universities are globally ranked based on several distinct criteria including academic and employer reputation. This reputation was based on the opinions of experts and stakeholders in the field. Research output in terms of publications, innovations and their impact on society were also significant contributors to university ranking. Additionally, student-to-faculty ratio and international student and faculty diversity are often taken into ranking consideration. Finally, financial resources and alumni success also play a role in determining university's ranking. Despite being a young university, MNSUAM is in the process of making an impact in global rankings such as Times Higher Education World University Ranking, QS World University Ranking and UI Green Metrics. We are proud that our university is on the right track and has won several distinctions in various national and international rankings.

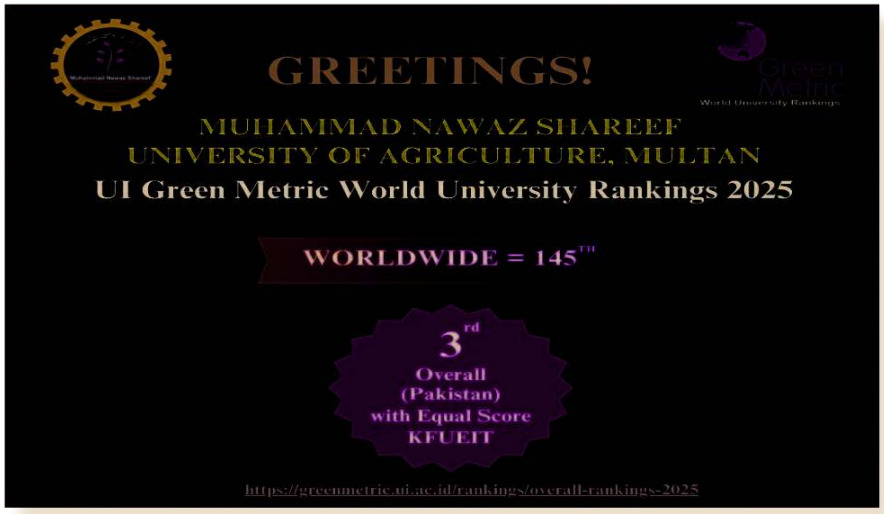
2.9.1 UI GREEN METRIC WORLD UNIVERSITY RANKINGS 2025

The UI GreenMetric World University Ranking is based on green campus and environmental sustainability initiatives undertaken by the universities. The ranking agency prudently allocates the rankings to the universities by assessing their environmental commitment and initiatives in six domains. MNSUAM secured 3rd position at the national level and 145th world-wide. We aim to increase awareness towards sustainability. The primary objective is to control carbon footprints and protect the natural atmosphere from the impact of drastic climate change.

MNSUAM NATION-WIDE AND GLOBAL RANKING STATUS BY UI GREENMETRIC

Ranking	2018	2019	2020	2021	2022	2023	2024	2025
National	5th	4th	3rd	1st	4th	1st	3rd	3rd
Worldwide	361	311	243	154	203	183	159	145

MNSUAM NATION-WIDE RANKING STATUS BY UI GREENMETRIC



2.9.2 TIMES HIGHER EDUCATION IMPACT RANKINGS 2026

The Times Higher Education Impact Rankings uses a range of indicators to assess universities' performance in achieving the United Nations Sustainable Development Goals (SDGs). These goals encompass a broad range of issues, including poverty eradication, gender equality, clean energy, climate action, and sustainable cities. The ranking agency uses carefully calibrated indicators to provide comprehensive and balanced comparison across four key areas of research, stewardship, outreach, and teaching.

MNS University of Agriculture, Multan, has achieved remarkable success in the 2026 Times Higher Education (THE) Impact Rankings, placing 2nd overall in Pakistan and 301-400 worldwide. MNSUAM also excelled in the following Sustainable Development Goals (SDGs).

MNSUAM NATION-WIDE AND GLOBAL RANKING STATUS BY TIMES HIGHER EDUCATION IMPACT RANKING 2026



2.9.3 QS WORLD UNIVERSITY RANKINGS BY SUBJECT 2026 (AGRICULTURE & FORESTRY)

MNS University of Agriculture Multan has achieved a significant milestone by securing a position in the 301-350 range in the QS World University Rankings 2026 for the subject Agriculture & Forestry. This recognition highlights the university's growing academic and research contributions in the field. The ranking reflects key performance indicators, including academic reputation, employer reputation, faculty research output, and international collaborations. Moving forward, the university aims to strengthen its research impact, industry linkages, and faculty credentials to enhance its global standing. Strategic efforts will be directed toward quality publications, research funding, and international partnerships to further elevate the university's ranking in the coming years.



2.9.4 RANKING OF ORIC AND BIAEC BY THE HEC (NATIONAL)

HEC evaluates the performance of all universities across Pakistan using key performance indicators related to research excellence, innovation, commercialization, and capacity building. In this regard, HEC introduced the ORIC Policy 2021 for the recognition of ORICs to enhance research quality and their role in promoting innovation and commercialization. Accordingly, ORIC MNSUAM was recognized by HEC (on 11.10.2021), achieving the status of being the 2nd recognized ORIC at the national level and the 1st recognized ORIC in Southern Punjab. As per evaluation report 2024-2025, MNSUAM was placed in 'X's category and secured the 1st position amongst all the Universities of South Punjab. MNSUAM Business Incubation & Agriculture Entrepreneurship Centre was Placed in W's Category and secured 1st Rank in South Punjab.

MNSUAM RANKING CATEGORY AMONG NATIONAL UNIVERSITIES BY HEC



QUALITY ASSURANCE

Muhammad Nawaz Shareef
University of Agriculture
Multan



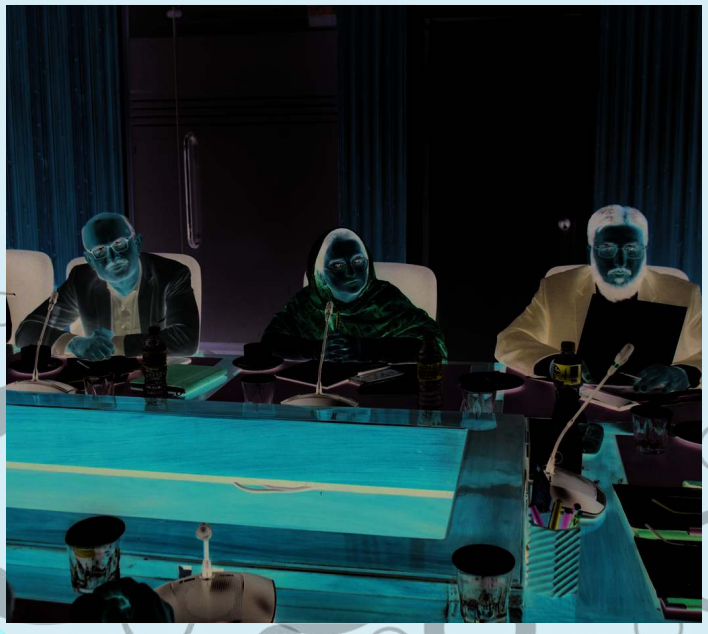
Chapter 3

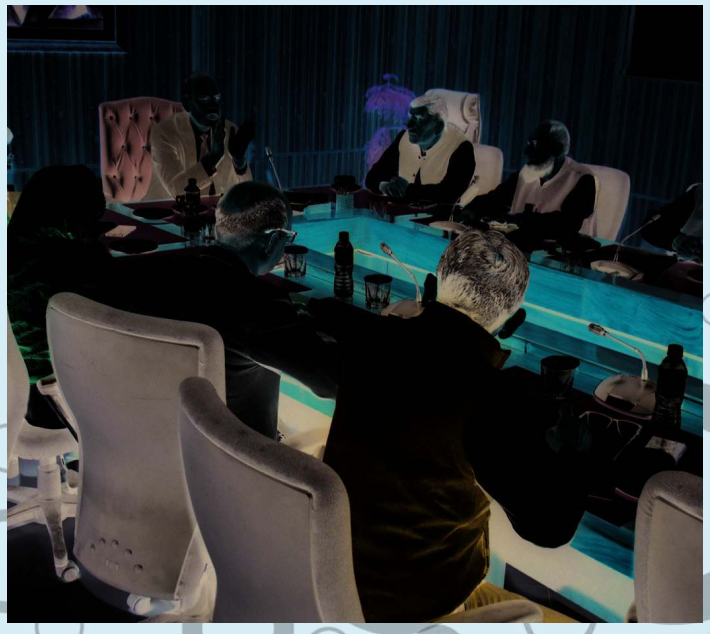
Quality Assurance



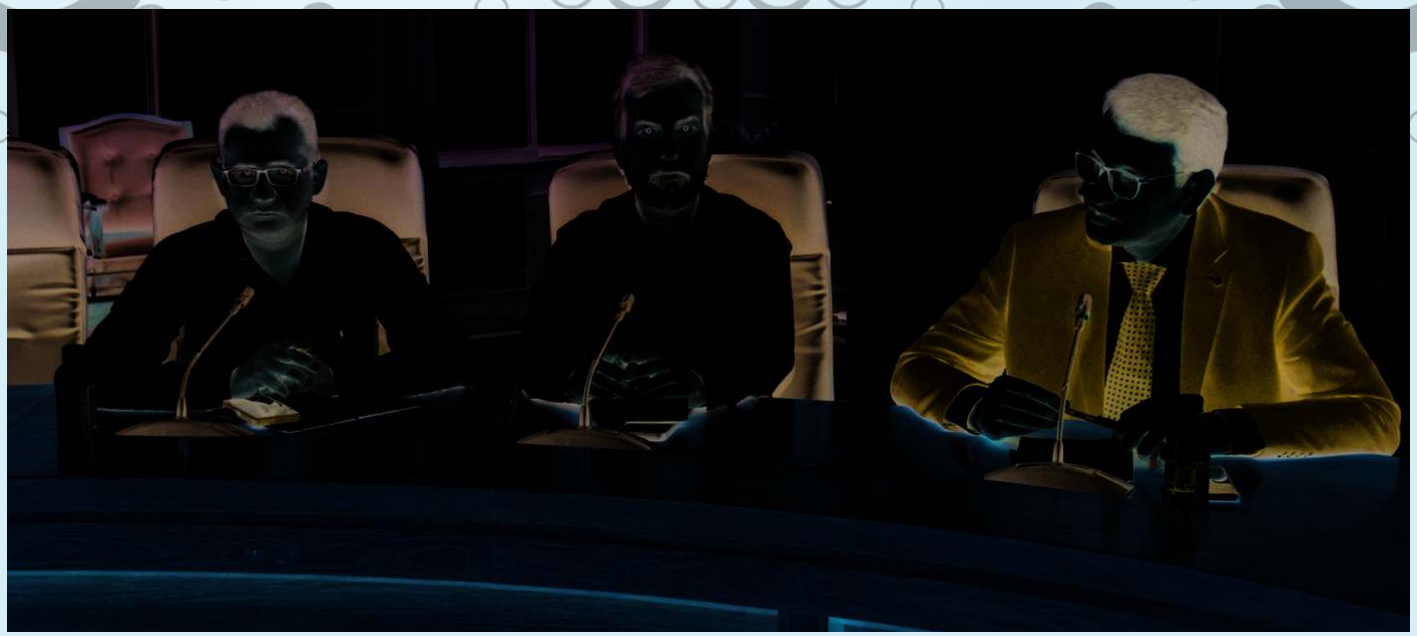




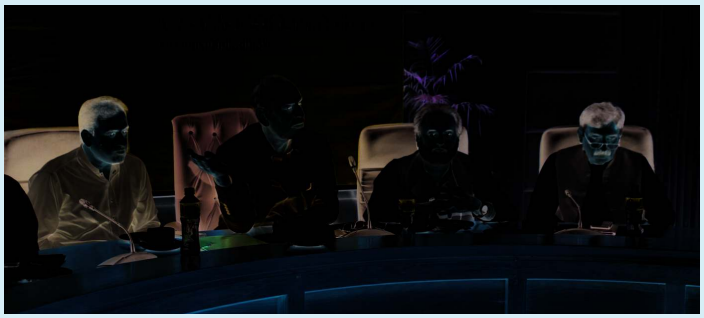




Chapter 3
Quality Assurance











CHAPTER 03

QUALITY ASSURANCE

3.1 QUALITY ENHANCEMENT CELL

Under the guidelines of the Higher Education Commission (HEC), the Quality Enhancement Cell (QEC) was established in the University in May 2016 for assuring quality standards in the University through coordination between the HEC and the University departments/offices. The main focus of QEC is the implementation of quality assurance policies of HEC and monitoring the degree programs being offered by the University, to promote outcome based learning. This helps in developing a mindset among the faculty and students for the promotion of academic excellence. Its primary mandate is to foster a culture where quality is not an afterthought, but the very fabric of the institution's operations.

The QEC at MNSUAM is helping and guiding the academic Departments in accreditation of undergraduate programs from respective councils and obtaining NoCs for postgraduate programs from the HEC. The QEC notifies similarity index of synopses and theses before submission to the respective offices. Furthermore, the QEC also organizes seminars and training workshops for the faculty and students for their awareness regarding standards and procedures of quality assurance. The QEC also arranges internal and external quality assessments at various levels in coordination with respective accreditation councils and HEC to ensure and maintain quality standards.

3.2 FUNCTIONS OF QEC

The QEC at MNS University of Agriculture Multan performs the following functions:

- Capacity building of faculty, staff and students through seminars and trainings regarding the quality assurance in Higher Education Institutions (HEIs).
- Accreditation of undergraduate programs from respective Accreditation Councils.
- Helping and guiding academic departments in preparation of dossiers to apply for NoC from HEC to launch graduate programs.
- Self-assessment of academic programs involving program teams and assessment teams.
- Conduct of Graduate Program Review (GPR) and coordination with academic Departments / Institutes for compiling the information.
- Preparation of Institutional Performance Report (IPR) and conducting Review of Institutional Performance and Enhancement (RIPE).
- Ensuring continuous quality improvement (CQI) through preparation of implementation plans and corrective actions taken reports in response to the findings of internal/external assessments.

- Conduct the meetings of Departmental Technical Review Committees for Annual Review, Mid-Term Review and Tenure Review of TTS faculty.
- Capacity building of students, faculty, and non-teaching staff of the university regarding quality assurance and enhancement.
- Promoting innovative teaching practices and hybrid/blended learning through the use of technological and digital tools.

3.3 ASSESSMENT OF PROGRAMS BY ACCREDITATION COUNCILS

The QEC helps and guides the Institutes/Departments in preparing documents and making other necessary arrangements for the visit of Accreditation Inspection Committee (AICs) of Accreditation Councils. The QEC acts as a bridge between the teaching departments and Accreditation Councils. During the year 2025-26, accreditations visits of AICs of different councils were arranged for various programs in the University as per following detail:

Sr. No.	Disciplines/Programs	Accreditation Council
B.Sc. (Hons.) Agriculture		
1	Plant Breeding and Genetics	National Agriculture Education Accreditation Council (NAEAC)
2	Biotechnology	
3	Plant Pathology	
4	Entomology	
5	Agronomy	
BS		**Zero Visit**
1	Public Health	Allied Health and Professionals Council (AHPC)
2	Medical Laboratory Technology	

3.4 NOCS TO INITIATE POST-GRADUATE DEGREE PROGRAMS

University is expanding and offering new MS, M.Sc. (Hons.) and Ph.D. degree programs after getting NOCs from the Higher Education Commission (HEC) for launching new graduate degree programs. During the reporting period, NOC was obtained from HEC for the following postgraduate degree program:

- M.Sc. (Hons.) Animal Nutrition

3.5 DEPARTMENTAL TECHNICAL REVIEW OF TTS FACULTY

To create a spirit of competition and target based assessment, the MNSUAM promotes hiring young faculty as Assistant Professor on TTS. The meetings of DTRC, for assessing annual performance, mid probationary review, and tenure review of the TTS faculty, were held during the year under report as per following detail:

3.5.1 ANNUAL REVIEW

Sr. No.	Institutes/Departments	Faculty Members	No. of Cases
Institute of Plant Breeding and Biotechnology (IPBB)			
1	Biotechnology	3	3
2	Plant Breeding and Genetics	3	3
3	Seed Science and Technology	3	3
Faculty of Agriculture and Environmental Sciences (FAES)			
4	Agronomy	2	2
5	Entomology	6	6
6	Food Science and Technology	4	7
7	Horticulture	4	4
8	Plant Pathology	3	3
9	Soil Science	4	6
Faculty of Social Sciences and Humanities (FSSH)			
10	Agribusiness and Entrepreneurship Development	1	2
11	Outreach and Continuing education	1	2
Faculty of Computing (FOC)			
12	Computer Science (FOC)	2	3
Faculty of Agricultural Biosystems Engineering and Technology (FABSET)			
13	Agricultural Engineering	4	5

Faculty of Veterinary and Animal Sciences (FVAS)			
14	Pathobiology and Biomedical Sciences	3	3
15	Animal and Dairy Sciences	2	4
16	Poultry Science	1	2
17	Clinical Sciences	1	1
18	Zoology, Wildlife and Fisheries	1	1
Total		**48**	**60**

3.5.2 MID PROBATIONARY REVIEW

Sr. No.	Institutes/Departments	Faculty Members	No. of Cases
Institute of Plant Breeding and Biotechnology (IPBB)			
1	Biotechnology	3	3
2	Plant Breeding and Genetics	2	2
3	Seed Science and Technology	3	3
Faculty of Agriculture and Environmental Sciences (FAES)			
4	Agronomy	2	2
5	Entomology	3	3
6	Food Science and Technology	2	2
7	Soil Science	2	2
Faculty of Social Sciences and Humanities (FSSH)			
8	Agribusiness and Entrepreneurship Development	1	1
Faculty of Computing (FOC			
9	Computer Science	1	1
Faculty of Agricultural Biosystems Engineering and Technology (FABSET)			
10	Agricultural Engineering	1	1

Faculty of Veterinary and Animal Sciences (FVAS)			
11	Pathobiology and Biomedical Sciences	1	1
12	Animal and Dairy Sciences	2	2
13	Poultry Science	1	1
14	Clinical Sciences	1	1
Total		25	25

3.5.3 TENURE REVIEW

Sr. No.	Institutes/Departments	Faculty Members	No. of Cases
Institute of Plant Breeding and Biotechnology (IPBB)			
1	Biotechnology	1	1
Faculty of Agriculture and Environmental Sciences (FAES)			
2	Entomology	3	3
3	Plant Pathology	1	1
Faculty of Agricultural Biosystems Engineering and Technology (FABSET)			
4	Agricultural Engineering	3	3
Faculty of Veterinary and Animal Sciences (FVAS)			
5	Pathobiology and Biomedical Sciences	2	2
Total		**10**	**10**

3.6 SELF-ASSESSMENT OF ACADEMIC PROGRAMS

Program Teams (PTs) of Institutes/Departments prepare SARs and submit to QEC, Assessment Teams (ATs) conduct the assessment and submit report to QEC. The Departments/Institutes prepare and submit implementation plans to QEC based on the findings of ATs. Assessments of SARs, preparation of implementation plans and corrective actions report of the following undergraduate and graduate programs were completed during this year:

Sr. No.	Programs	SARs Prepared by PTs	SARs Assessed by ATs	Implementation Plan	Corrective Actions Reports
Faculty of Agriculture and Environmental Sciences (FAES)					
1	Plant Breeding and Genetics M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
2	Seed Science M.Sc. (Hons.)	✓	✓	✓	✓
3	Biotechnology M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
4	Entomology M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
5	Plant Pathology M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
6	Soil Science M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
7	Climate Change M.Sc. (Hons.)	✓	✓	✓	✓
8	Agronomy M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
9	Horticulture M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
10	Forestry B.Sc. (Hons.)	✓	✓	✓	✓
Faculty of Food and Home Sciences (FFHS)					
11	Food Science and Technology (BS)	✓	✓	✓	✓
12	Food Science and Technology M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
13	Food Science and Technology M.Sc. (Hons.), Ph.D.	✓	✓	✓	✓
14	Home Economics B.Sc. (Hons.)	✓	✓	✓	✓

Faculty of Social Sciences and Humanities (FSSH)					
15	Agricultural and Resource Economics B.Sc. (Hons.) Agriculture	✓	✓	✓	✓
16	Agricultural and Resource Economics B.Sc. (Hons.) Agri. Major	✓	✓	✓	✓
17	Agriculture Economics M.Sc. (Hons.) , Ph.D.	✓	✓	✓	✓
18	Farm Management B.Sc. (Hons.)	✓	✓	✓	✓
19	Sociology (BS)	✓	✓	✓	✓
20	Management Agribusiness Specialization (MS)	✓	✓	✓	✓
21	Agricultural Extension M.Sc. (Hons.)	✓	✓	✓	✓
22	MBA Regular	✓	✓	✓	✓
23	MBA Executive	✓	✓	✓	✓
Faculty of Veterinary and Animal Sciences (FVAS)					
24	Poultry Sciences (MS)	✓	✓	✓	✓
25	Animal Sciences B.Sc. (Hons.)	✓	✓	✓	✓
26	Microbiology (BS)	✓	✓	✓	✓
27	Biochemistry (BS)	✓	✓	✓	✓
28	Biotechnology (BS)	✓	✓	✓	✓
29	Zoology (BS)	✓	✓	✓	✓

30	Medical Laboratory Technology (BS)	✓	✓	✓	✓
31	Public Health (BS), (MS)	✓	✓	✓	✓
Faculty of Agricultural Biosystems Engineering and Technology (FABSET)					
32	Agricultural Engineering [BS, M.Sc. (Hons.)]	✓	✓	✓	✓
33	Agro Industrial Engineering Technology M.Sc. (Hons.)	✓	✓	✓	✓
Faculty of Computing (IOC)					
34	Computer Science BS, MS & PhD	✓	✓	✓	✓
35	Information Technology (BS)	✓	✓	✓	✓
36	Data Science (BS)	✓	✓	✓	✓

3.7 FEEDBACK SURVEYS AND ANALYSIS

The QEC coordinates with academic departments for collecting feedback from various stakeholders through following surveys:

1. Course and Teacher Evaluation Proforma
2. Faculty Course Review Reports
3. Graduating Students Survey
4. Alumni Survey
5. Employer Survey
6. Faculty Survey

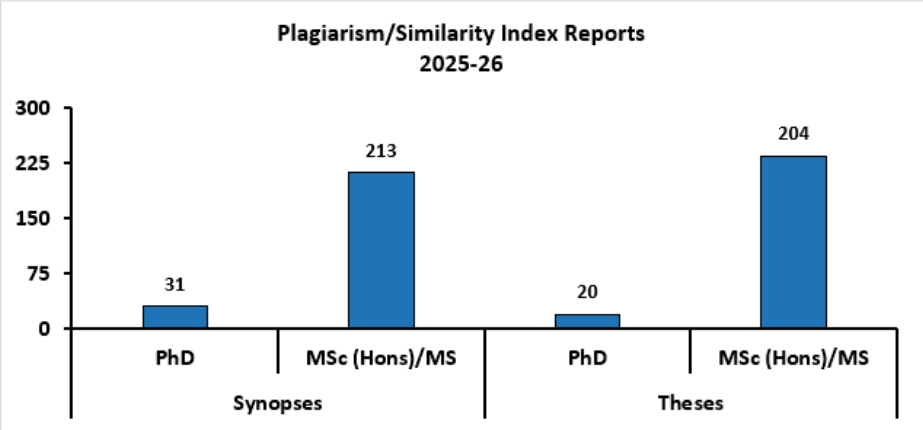
The analysis reports are prepared and shared with respective departments to revise strategies and policies regarding curriculum, teaching methodology, and other activities related to learning and administrative aspects.

With the objective of improving the course contents, teaching, and conducive classroom environment to foster learning, feedback of students is collected in the form of HEC Course and Teacher Evaluation Proformas during each semester through an online system. The data received is analyzed and reports are shared with the respective chairpersons of academic departments for discussion with their faculty members for implementation. Following is the detail of number of Courses for which this information was collected during the year under consideration:

Sr. No.	Semester	Undergraduate	Postgraduate
		Number of Courses	
1	Winter 2025-26	452	105
2	Spring 2026	374	91

3.8 PLAGIARISM/SIMILARITY INDEX CHECKING FOR GRADUATE SYNOPSES/THESES

For maintaining and assuring the quality, similarity index/plagiarism checking of postgraduate research synopses and theses is mandatory at MNSUAM and only those documents are accepted which have similarity index within permissible limits as defined by HEC. The QEC provides services for checking similarity index of synopses/theses and papers/articles submitted for travel grant to different funding agencies.



3.9 GRADUATE PROGRAM REVIEW (GPR)

Self-Graduate Program Review (GPR) committee conducted Graduate Program Review (GPR) on April 13-14, 2026, at MNS University of Agriculture, Multan. The committee constituted by Vice Chancellor comprised of Dr. Amar Matloob, Director QEC, MNSUAM, Prof. (Retd.) Dr. M. Jafar Jaskani, Institute of Horticulture Sciences, UAF and Prof. Dr. Umar Farooq, Dean, Faculty of Food and Home Sciences, MNSUAM. The committee thoroughly reviewed the documentary records, interacted with the heads of academic and administrative departments, faculty members and students, visited labs, classrooms, and other infrastructure facilities. The committee prepared a report accordingly, and based on its findings, the QEC, in coordination with academic and administrative offices, prepared an implementation plan which was subsequently approved by the Convener, IQC.

3.10 SELF-REVIEW OF INSTITUTIONAL PERFORMANCE AND ENHANCEMENT (RIPE)

Self-Review of Institutional performance & Enhancement (RIPE for IQA) was carried out on April 20-22, 2026 under revised Pakistan Precepts, Standards and Guidelines for Quality Assurance in Higher Education (PSG-2023) to assess the University's academic quality, research productivity, governance, infrastructure, and institutional progress. The QEC prepared and submitted Institutional Performance and Enhancement Report (IPER) that consisted of the following 16 standards.

Standard 01: Vision, Mission, Goals, and Strategic Planning
Standard 02: Governance, Leadership, and Organization
Standard 03: Institutional Resources and Planning
Standard 04: Audit and Finance
Standard 05: Affiliated Colleges / Institutions
Standard 06: Internationalization of Higher Education and Global Engagement
Standard 07: Faculty Recruitment, Development and Support Services
Standard 08: Academic Programs and Curricula and Standard 09: Admission, Progression, Assessment, and Certification
Standard 09: Admission, Progression, Assessment, and Certification
Standard 10: Student Support Services
Standard 11: Impactful Teaching and Learning and Community Engagement
Standard 12: Research, Innovation, Entrepreneurship, and Industrial Linkage
Standard 13: Fairness and Integrity
Standard 14: Public Information and Transparency
Standard 15: Institutional Effectiveness, Quality Assurance and Enhancement
Standard 16: CQI and Cyclical External Quality Assurance

The review panel constituted by the Vice Chancellor comprised of Dr. Syed Farhan Gillani, Director, QEC, University of Southern Punjab, Multan, Prof. Dr. Irfan Ahmad Baig, Dean, Faculty of Social Sciences and Humanities, MNSUAM and Prof. Dr. Salman Qadri, Coordinator, Faculty of Computing, MNSUAM. The review team reviewed all the standards thoroughly and prepared the RIPE report. The team also interacted with the students and faculty members of MNSUAM, visited the campus, classrooms, research laboratories, research farm, greenhouse, hostels and other infrastructure. The evaluation highlighted major strengths including purpose-built campus, qualified faculty, significant research funding, international collaborations, industry linkages, and innovative research initiatives in sustainable agriculture and technology. The University's growing national and international recognition through QS, UI GreenMetric, and Times Higher Education rankings was also appreciated. Overall, the Self-RIPE concluded that MNSUAM is a dynamic and progressive institution with strong potential to become a regional centre of excellence in agricultural education, research, innovation, and community service.

3.11 TRAININGS/WORKSHOPS ORGANIZED

The QEC conducted following capacity building training/seminars for the faculty and students to assure quality in the academic programs at the university.

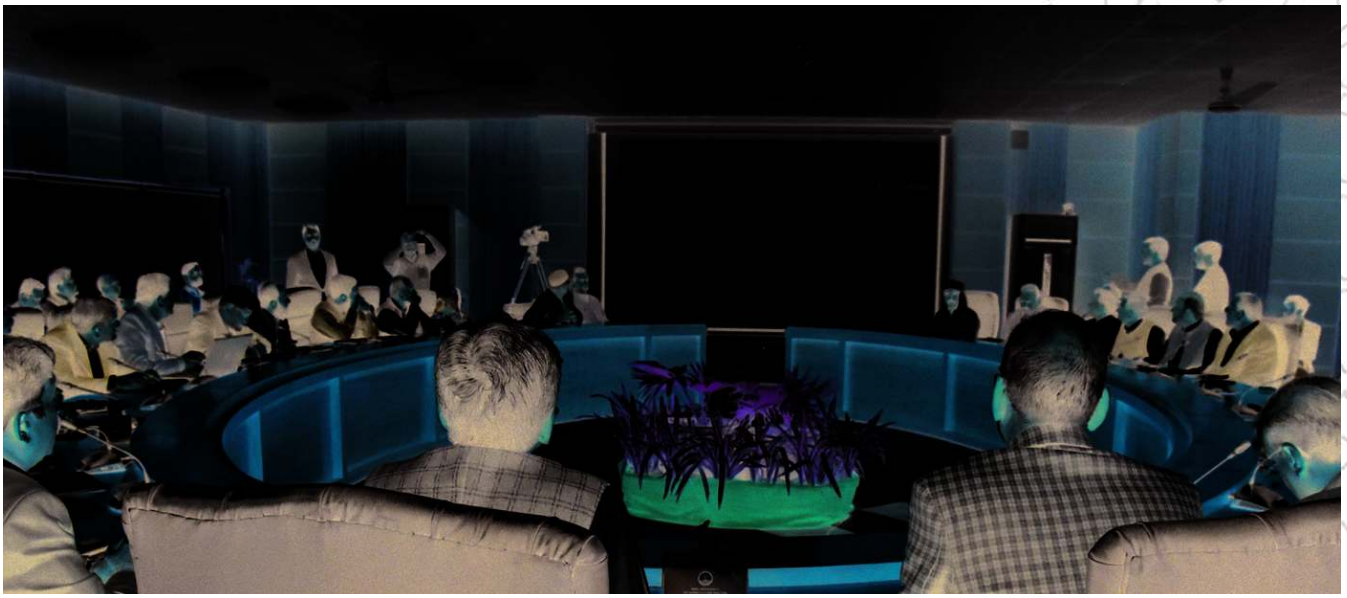
- Workshop for Program Team on preparation of SARs for Program Review for Effectiveness and Enhancement
- Use of Turnitin for Similarity Index/plagiarism
- Assessment of SARs on PREE Standards
- Departmental Excellence through HEC Aligned Quality Assurance and Sustainable Practices
- Designing and Implementing outcome-based education

3.12 IMPACT OF QUALITY ASSURANCE

Quality Enhancement Cell is responsible for the internal and external assessment of programs, collecting feedback from stakeholders including students, employer, faculty, and alumni through different surveys. The process has improved the quality of education, students' satisfaction, and performance of the faculty members. Overall impact of Quality Assurance is as under:

- The steps taken in terms of Quality Assurance by the QEC has created awareness among the students and teachers related to competitiveness at national and international level.
- The standardization has created seriousness at teaching and teachers are using innovative and ICT based approaches for making learning more effective.
- The process of assessing strengths, weaknesses and potential of the different programs through internal and external assessments has helped to prepared strategies for improving those programs meeting the required standards.
- Regular preparation of Self-Assessment Reports (SARs) tracks program efficacy against set criteria
- Efforts regarding the observance of minimum criteria for admissions and research have resulted positive outcomes at departmental level.
- Efforts to finding high place in the University rankings within and outside the country have been undertaken.
- Internal and external program reviews create actionable rectification plans for academic departments.
- Monitoring and Evaluation has become an integral component of each ongoing project.
- Promotion of outcome based teaching (classroom management, teaching methodology, peer reviews etc.).
- Management of academic staff (area of interest, expertise, workload and other responsibilities/duties assigned from time to time).
- Strong public and stakeholder confidence through transparency and accountability.
- Participation/membership of external stakeholders in Board of Studies, Academic Council, Selection Board, Syndicate etc.
- Preparation of Course Files of each course and assessment at the end of each semester.

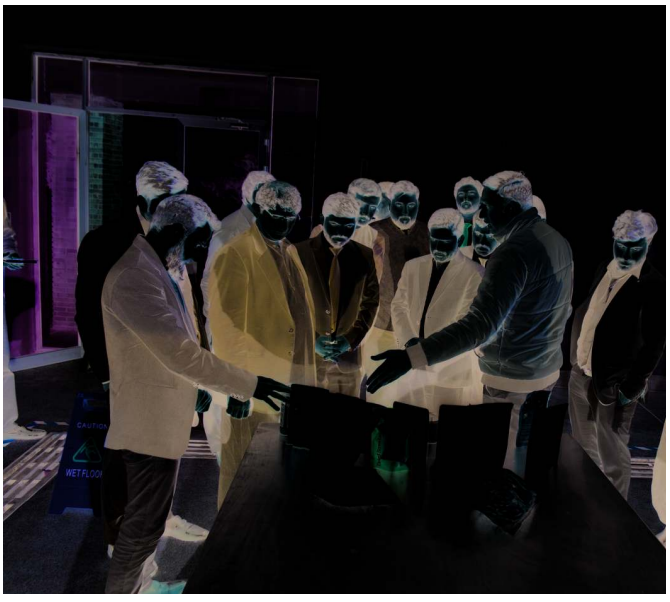
CHAPTER
03 QUALITY ASSURANCE











FACULTY DEVELOPMENT

Muhammad Nawaz Shareef
University of Agriculture
Multan



Chapter 4

Faculty Development











CHAPTER 04

FACULTY DEVELOPMENT

The University has a policy for capacity building of its all employees with special emphasis on faculty development. The University regularly organizes a number of seminars and workshops in collaboration with QEC/ORIC for the professional development of the young participants. They also participate in a number of training programs funded and organized by other organizations/agencies. These training programs focus on teaching and research methodologies and awareness on prevailing HEC/University rules and regulations.

4.1 OBJECTIVES

- Promote human resource development as an integral part of the MNSUAM strategic plan.
- Foster an environment of organizational and individual lifelong learning.
- Design, develop and implement programs and trainings/workshops that provide new knowledge, new skills, innovative thinking, and motivation, thereby contributing to significant improvements in the University's services and processes.
- Promulgate workplace harmony, effectiveness, and job satisfaction by providing programs that encourage appreciation of and sensitivity toward all persons.

4.2 FACULTY DEVELOPMENT PROGRAMS (MS/ PHD LOCAL + FOREIGN)

Sr. No.	Faculty Member	Designation	Department	Program	Name of University	Country
1	Mr. Manan Aslam	Lecturer	Agribusiness and Entrepreneurship Development	Ph.D.	Jiangsu University	China
2	Ms. Samra Naseem	Lecturer	Math. & Statistics	Ph.D.	BZU	Pakistan
3	Ms. Saima Rasheed	Lecturer	IPBB	Ph.D.	UAF	Pakistan
4	Mr. Abd Ur Rehman	Lecturer	Agricultural & Resource Economics	Ph.D.	Huazhong Agricultural University	China
5	Mr. Muhammad Bilal Ahsan	Lecturer	Agribusiness and Entrepreneurship Development	Ph.D.	University of Queensland	Australia
6	Mr. Muhammad Rizwan	Lecturer	Agronomy	Ph.D.	Uni. of Bonn	Germany

7	Mr. Qamer Mahmood	Lecturer	Pathobiology & Biomedical Sciences	Ph.D.	Ghent University	Belgium
8	Ms. Aisha Arshad	Lecturer	Pathobiology & Biomedical Sciences	Ph.D.	Uni. of Veterinary Medicine	Vienna
9	Mr. Shoaib Nasir	Lecturer	Agricultural & Resource Economics	Ph.D.	Foreman Christian College University, Lahore	Pakistan
10	Mr. Adnan Altaf	Lecturer	Institute of Computing	Ph.D.	Jiangsu University	China
11	Engr. Shahzad Ahmed	Lecturer	Agricultural Engineering	Ph.D.	Southern University of Science & Technology	China
12	Engr. Muhammad Kashif	Lecturer	Agricultural Engineering	Ph.D.	University of California	USA
13	Mr. Waqar Zaib	Lecturer	Pathobiology & Biomedical Sciences	Ph.D.	University of Ghent	Belgium
14	Ms. Amina Irfan	Lecturer	Zoology, Wildlife & Fisheries	Ph.D.	University of Cambridge	United Kingdom
15	Mr. Hafeez-ur-Rehman Ali Khera	Lecturer	Clinical Sciences	Ph.D.	Hukzhong Agricultural University	China

4.3 RETURNED SCHOLARS

Sr. No.	Name of Faculty	Program	Name of University
1	Dr. Muhammad Arslan	Ph.D.	University of Bonn, Germany
2	Mr. Azher Khan	Ph.D.	International Islamic University, Islamabad

4.4 FACULTY AND STAFF TRAININGS/WORKSHOP ORGANIZED

Sr. No.	Training	Duration		Organization	Trainee
		From	To		
1	Short-Term Training Program (3 – 6 Months) under Prime Minister's Initiative for Capacity Building of 1000 Agricultural Professional in China	20-07-25	19-01-26	Agriculture Department, Lahore	Dr. Syeda Anum Masood Bokhari, Lecturer
2	Keynote speaker nomination for transportation - 3rd National Green Metric Workshop at Grand Asian University, Sialkot	17-08-25	18-08-25	Grand Asian University, Silakot	Dr. Muqarrab Ali, Associate Professor
3	Short-Term Training Program (3 – 6 Months) under Prime Minister's Initiative for Capacity Building of 1000 Agricultural Professional in China	25-08-25	27-11-25	Agriculture Department, Lahore	Dr. Umair Riaz, Assistant Professor
4	Meta AI Master Trainers workshop	05-09-25	06-09-25	Higher Education Commission (HEC), Islamabad	Mr. M. Aziz ur Rehman, Lecturer
5	Agri Related activities and forums organized in Weifang China	27-09-25	01-10-25	Uni Services International (Pvt.) Ltd. Islamabad	Dr. Tanveer Ahmad, Associate Professor
6	Training workshop on Generative AI	29-09-25	30-09-25	Punjab Higher Education Commission, Lahore	Dr. Nida Firdous, Assistant Professor
7	Training workshop on Generative AI	29-09-25	30-09-25	Punjab Higher Education Commission, Lahore	Mr. Muhammad Shahzad, Research Officer

8	"Silk Road Disaster Risk Reduction and Sustainability Development" training workshop at China	17-10-25	04-11-25	Chinese Academy of Sciences (CAS), China and HEC, Pakistan	Dr. Muhammad Saifullah, Assistant Professor
9	"Silk Road Disaster Risk Reduction and Sustainability Development" training workshop at China	17-10-25	04-11-25	Chinese Academy of Sciences (CAS), China and HEC, Pakistan	Dr. Muhammad Arif, Lecturer
10	2nd International Conference & Expo on Precision Agriculture (IPAC 2025)	20-10-25	22-10-25	International Precision Agriculture Conference (IPAC), Rawalpindi	Dr. Mahmood Alam Khan, Lecturer
11	Short-Term Training Program (3 – 6 Months) under Prime Minister's Initiative for Capacity Building of 1000 Agricultural Professional in China	08-11-25	05-02-26	Agriculture Department, Lahore	Dr. Akhtar Hameed, Assistant Professor
12	Training workshop titled "Molecular Approaches in Plant Breeding for Crop Improvement"	25-11-25	25-11-25	University of Agriculture, Faisalabad	Dr. M. Abu Bakar Siddique, Assistant Professor
13	Training workshop titled "Molecular Approaches in Plant Breeding for Crop Improvement"	25-11-25	25-11-25	University of Agriculture, Faisalabad	Dr. Muhammad Ali Sher, Lecturer
14	Immersive Foundational Workshop scheduled in Kuala Lumpur, Malaysia under the Meryl Williams Fellowship (MW) funded by ACAIR	01-12-25	13-12-25	ACAIR Project. Australia	Dr. Ambreen Naz, Associate Professor
15	Immersive Foundational Workshop scheduled in Kuala Lumpur, Malaysia under the Meryl Williams Fellowship (MW) funded by ACAIR	01-12-25	13-12-25	ACAIR Project. Australia	Dr. Nighat, Assistant Professor

16	Immersive Foundational Workshop scheduled in Kuala Lumpur, Malaysia under the Meryl Williams Fellowship (MW) funded by ACAIR	01-12-25	13-12-25	ACAIR Project. Australia	Ms. Shafa Nayab, Lecturer
17	Immersive Foundational Workshop scheduled in Kuala Lumpur, Malaysia under the Meryl Williams Fellowship (MW) funded by ACAIR	01-12-25	13-12-25	ACAIR Project. Australia	Ms. Benish Sarfraz, Lecturer
18	Training on Multi-country Observational Study Mission on Principles and Best Practices of the Sufficiency-based Circular Economy	07-01-26	09-01-26	Asian Productivity Organization - Japan	Dr. Nabeel Ahmad Ikram, Lecturer
19	Training on Multi-country Observational Study Mission on Principles and Best Practices of the Sufficiency-based Circular Economy	07-01-26	09-01-26	Asian Productivity Organization - Japan	Dr. Mahmood Alam Khan, Lecturer
20	Capacity building and collaboration to promote fruit dehydration technology and international linkages at School of Agricultural technology and Food Industry, Walailak University, Thailand	12-01-26	17-01-26	Walailak University, Thailand	Prof. Dr. Umar Farooq, Dean, FF&HS
21	Capacity building and collaboration to promote fruit dehydration technology and international linkages at School of Agricultural technology and Food Industry, Walailak University, Thailand	12-01-26	17-01-26	Walailak University, Thailand	Prof. Dr. Mubashir Mehdi, Principal Officer, ORIC

22	Quality Excellence - Leadership Engagement for Transforming QA Systems in Pakistan	29-01-26	31-01-26	Higher Education Commission (HEC), Islamabad	Prof. Dr. Irfan Ahmad Baig, Dean, FSS&H
23	Quality Excellence - Leadership Engagement for Transforming QA Systems in Pakistan	29-01-26	31-01-26	Higher Education Commission (HEC), Islamabad	Prof. Dr. M. Hammad Nadeem Tahir, Coordinator, FA&ES
24	Quality Excellence - Leadership Engagement for Transforming QA Systems in Pakistan	29-01-26	31-01-26	Higher Education Commission (HEC), Islamabad	Dr. Amar Matloob, Director, QEC
25	Workshop on validation of satellite-based Evapotranspiration using Eddy Eon variance Flux Towers System	16-03-26	16-03-26	International Water Management Institute, Lahore	Dr. Muhammad Saifullah, Assistant Professor
26	Workshop on validation of satellite-based Evapotranspiration using Eddy Eon variance Flux Towers System	16-03-26	16-03-26	International Water Management Institute, Lahore	Mr. Abid Raza, Farm Manager
27	Training course offered by KOICA titled "Establishment of PAK-Korea Nutrition Centre (PKNC) to Improve Child & Community Nutrition for Training Policy Managers" to be held in Seoul, South Korea from April 18-28, 2026.	17-04-26	28-04-26	KOICA, South Korea	Prof. Dr. Irfan Ahmad Baig, Dean, FSS&H
28	Training course offered by KOICA titled "Establishment of PAK-Korea Nutrition Centre (PKNC) to Improve Child & Community Nutrition for Training Policy Managers" to be held in Seoul, South Korea from April 18-28, 2026.	17-04-26	28-04-26	KOICA, South Korea	Prof. Dr. Umar Farooq, Dean, FF&HS

29	International Training Program on "Building Resilience in food security in Pakistan by Improving Climate-Resilient Agroecosystems"	12-06-26	19-07-26	Australian Government, Department of Foreign Affairs and Trade (DFAT)	Dr. Muhammad Abu Bakar Siddique, Assistant Professor (TTS)
30	International Training Program on "Building Resilience in food security in Pakistan by Improving Climate-Resilient Agroecosystems"	12-06-26	19-07-26	Australian Government, Department of Foreign Affairs and Trade (DFAT)	Dr. Akash Fatima, Assistant Professor (TTS)
31	International Training Program on "Building Resilience in food security in Pakistan by Improving Climate-Resilient Agroecosystems"	12-06-26	19-07-26	Australian Government, Department of Foreign Affairs and Trade (DFAT)	Dr. Muhammad Ali Sher, Lecturer
32	International Training Program on "Building Resilience in food security in Pakistan by Improving Climate-Resilient Agroecosystems"	12-06-26	19-07-26	Australian Government, Department of Foreign Affairs and Trade (DFAT)	Dr. Sehrish Ijaz, Lecturer
33	Workshop titled "Adaptation workshop for Impact-Based Forecasting for Kharif 2026 crops"	17-06-26	18-06-26	Pakistan Central Committee, CCRI, Multan	Dr. Nabeel Ahmad Ikram, Lecturer
34	Workshop titled "Adaptation workshop for Impact-Based Forecasting for Kharif 2026 crops"	17-06-26	18-06-26	Pakistan Central Committee, CCRI, Multan	Dr. Muhammad Arslan, Lecturer
34	Workshop titled "Adaptation workshop for Impact-Based Forecasting for Kharif 2026 crops"	17-06-26	18-06-26	Pakistan Central Committee, CCRI, Multan	Dr. Sarfraz Hashim, Assistant Professor

ACCESS



Chapter 5

Access











CHAPTER

05 ACCESS

5.1 BASIC ENROLMENT DURING 2025-26

Sr. No.	Program Offered	Male	Female	Total
1	B.Sc. (Hons.) in Agriculture	131	31	162
2	B.Sc. (Hons.) Agricultural & Resource Economics	9	7	16
3	B.Sc. Agricultural Engineering	21	7	28
4	B.Sc. Agro-industrial Engineering Technology	11	2	13
5	B.Sc. (Hons.) Animal Science	0	0	0
6	BBA Agribusiness	58	37	95
7	BS Biochemistry	4	16	20
8	BS Biotechnology	11	28	39
9	BS Computer Science	111	77	188
10	BS Data Science	34	20	54
11	B.Sc. (Hons.) Environmental Science	11	13	24
12	BS Economics with Data Science	24	17	41
13	B.Sc. (Hons.) Home Economics	1	12	13
14	B.Sc. (Hons.) in Human Nutrition & Dietetics	2	26	28
15	BS Food Science and Technology	20	33	35
16	BS Information Technology	122	69	191
17	BS Medical Laboratory Technology	118	63	181
18	BS Microbiology	4	9	13
19	B.Sc. (Hons.) Poultry Science	15	1	16
20	Bachelor of Science (BS) Public Health	7	17	24
21	BS Zoology	2	7	9
22	Livestock Assistant Diploma (Two Years)	207	0	207
23	Livestock Assistant Diploma (Three Years)	48	0	48
24	M.Sc. (Hons.)	253	111	364
25	Ph.D.	55	49	104

5.2 DATA OF M.SC. (HONS.)/MS AND PH.D. STUDENT ENROLMENT

5.2.1 M.SC. (HONS.)/ MS ENROLMENT DURING 2025-26

Sr. No.	Program Offered	Admitted Male	Admitted Female	Total
1	Agronomy	23	2	25
2	Agribusiness	0	0	0
3	Agri Economics	1	0	1
4	Agricultural Extension	1	0	1
5	Agri-Engineering	9	0	9
6	Agro Industrial Engineering Technology	3	1	4
7	Energy System Engineering	0	0	0
8	Biotechnology	9	4	13
9	Climate Change	7	2	9
10	Commuter Science	22	25	47
11	Entomology	25	10	35
12	Fisheries and Aquaculture	0	0	0
13	Food Science & Technology	24	12	36
14	Horticulture	17	4	21
15	HND	31	23	54
16	Plant Breeding And Genetics	9	3	12
17	Public Health	1	0	1
18	Plant Pathology	11	6	17
19	Postharvest Management Technology	0	0	0
20	Poultry Science	4	3	7
21	Soil Science	13	8	21
22	Seed Science & Technology	8	2	10
23	Weed Science	0	0	0
24	Zoology	0	0	0
25	MBA Regular	10	2	12
26	MBA Executive	25	4	29
	Total	**253**	**111**	**364**

5.2.2 PH.D. ENROLMENT DURING 2025-26

Sr. No.	Program Offered	Admitted Male	Admitted Female	Total
1	Agronomy	2	0	2
2	Agri Economics	8	1	9
3	Biotechnology	1	10	11
4	Computer Science	13	3	16
5	Entomology	8	5	13
6	Food Science & Technology	4	7	11
7	Horticulture	5	8	13
8	Human Nutrition and Dietetics	1	4	5
9	Plant Breeding And Genetics	3	1	4
10	Plant Pathology	4	3	7
11	Soil Science	5	2	7
12	Seed Science and Technology	0	0	0
13	Zoology	1	5	6
	Total	**55**	**49**	**104**

5.3 NUMBER OF STUDENTS GRADUATED DURING 2025-2026 (UNDERGRADUATE)

Sr. No.	Degree Program	Total Enrolled	Male	Female	Pass Out
1	Livestock Assistant Diploma	294	230	1	231
2	BS Computer Science	195	121	27	158
3	BS Information Technology	190	128	29	257
4	BS Data Science	50	34	10	44
5	BBAA	85	39	11	50
6	Agri. Economics	17	3	0	3
7	Agronomy	549	44	1	45
8	Biotechnology	9	3	0	3
9	Entomology	59	48	10	58
10	Food Science & Technology	49	16	32	48

11	Horticulture	27	24	3	27
12	Forestry	15	10	0	10
13	Farm Mechanization	14	14	0	14
14	Plant Breeding and Genetics	36	24	12	36
15	Plant Pathology	37	22	14	36
16	Seed Science	49	42	7	49
17	Soil Science	32	23	9	32
18	Agro Industrial Engineering	19	15	0	15
19	Poultry Science	19	14	1	15
20	Animal Science	10	5	0	5
21	Zoology	143	36	67	103
22	Microbiology	84	12	43	55
23	Human Nutrition & Dietetics	36	2	26	28
24	Home Economics	15	0	9	9
25	Environmental Sciences	20	5	12	17
26	Agriculture and Resource Economics	23	12	3	15

5.4 NUMBER OF STUDENTS GRADUATED DURING 2025-26 (POSTGRADUATE)

Sr. No.	Degree Program	Male	Female	Pass Out
1	M.Sc. (Hons.) Agronomy	12	4	16
2	M.Sc. (Hons.) Agri. Economics	5	5	10
3	M.Sc. (Hons.) Biotechnology	3	7	10
4	MS Computer Science	14	9	23
5	M.Sc. (Hons.) Entomology	17	1	18
6	M.Sc. (Hons.) Food Science & Technology	7	7	14
7	M.Sc. (Hons.) Horticulture	17	10	27
8	M.Sc. (Hons.) Plant Breeding & Genetics	6	6	12
9	M.Sc. (Hons.) Plant Pathology	12	6	18
10	M.Sc. (Hons.) Seed Science & Technology	5	0	5
11	M.Sc. (Hons.) Soil Science	15	7	22

12	M.Sc. (Hons.) Climate Change	2	3	5
13	M.Sc. Agri. Extension	1	0	1
14	M.Sc. Agro Industrial Engineering	1	2	3
15	M.Sc. Agricultural Engineering	1	0	1
16	MS Fisheries	10	7	17
17	M.Sc. Human Nutrition & Dietetics	3	11	14
18	MS Management Agri Business	3	2	5
19	MS Public Health	17	6	33
20	MS Poultry Science	8	0	8
21	MS Zoology	12	39	51
22	Ph.D. Soil Science	2	0	2

5.5 FULL-TIME FACULTY MEMBERS

Sr. No.	Designation	Male	Female	Total
1	Professor	13	0	13
2	Associate Professor	22	1	23
3	Assistant Professor	38	9	47
4	Lecturer	47	18	65
5	**Grand Total**	**120**	**28**	**148**
6	**Ph.D. Faculty**	**93**	**13**	**106**

UNIVERSITIES BUILDING ECONOMIES

Muhammad Nawaz Shareef
University of Agriculture
Multan

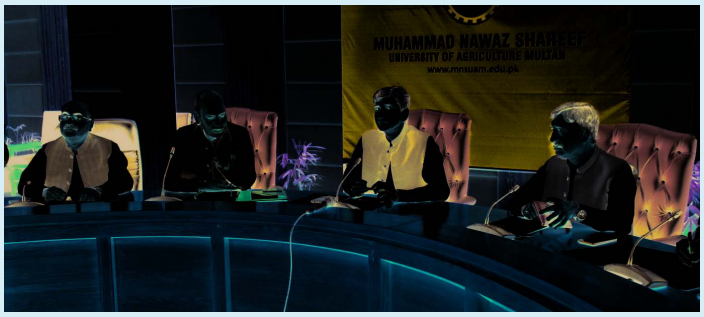


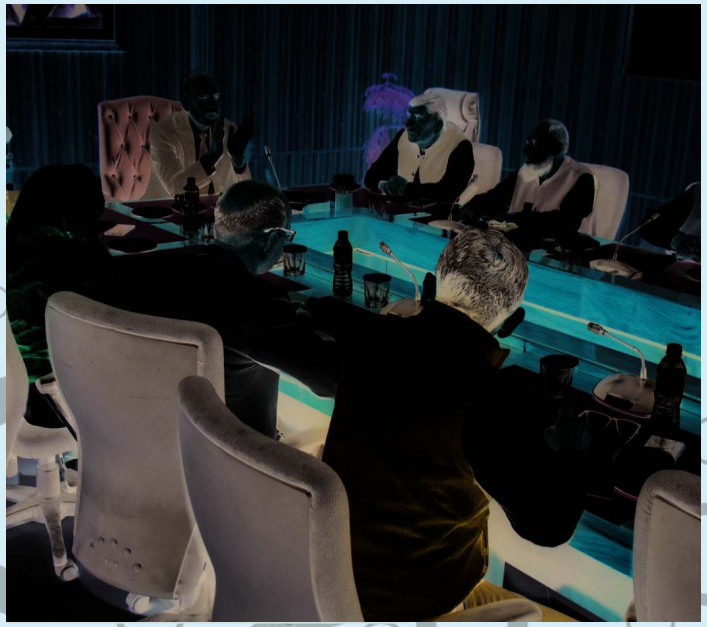
Chapter 6

Universities Building Economies











Chapter 6

Universities Building Economies











CHAPTER 06

UNIVERSITIES BUILDING ECONOMIES

6.1 UNIVERSITY–INDUSTRY LINKAGES

MNSUAM is taking a leap forward by developing strong linkages with agro-based industries through collaborative research, exhibitions, festivals and new business incubations. The purpose of the collaboration is to ensure the training of our faculty members, students and young scholars in interdisciplinary research projects and methods. MNSUAM is actively looking forward to foreign collaborations and funding for its faculty development program and research projects. Certified labs under the Central Lab System are extending services to the industry for commercial operations.

6.2 FARMER ADVISORY SERVICES

MNSUAM, in pursuit of its moral obligation and national commitments to serve the farming community, launched farmer advisory services that consist of daily crop and weather advisory and other relevant information. Farmer advisory services are ensuring demand-driven and need-based agro-technology transfer to farmers with different farming backgrounds. Developing a sound linkage between academia-industry and the farming community to have a demand-driven agenda for research is the University's top priority. By accelerating the diffusive process of innovative agro-technology, the gap between potential and actual yield can be abridged, and our farmer advisory service is one such step towards this great milestone.

6.3 SOUTH PUNJAB AGRICULTURAL FORUM

This forum comprises stakeholders from public and private sectors including Pakistan Central Cotton Committee, Central Cotton Research Institute, Cotton Research Station, Agricultural Mechanization Research Institute, Mango Research Institute, Soil and Water Testing Laboratory, Directorate of Water Management, Agricultural Extension Wing, Pest Warning and Quality Control of Pesticides, Federal Seed Certification and Registration Department, Floriculture, Pakistan Crop Protection Association, etc. The agenda is to establish a platform for research and coordination mechanism development among MNSUAM, public sector sister research organizations, and the private sector to strengthen the overall agriculture sector. During 2025-26, the Regional/South Punjab Agriculture Forum convened several sessions at MNSUAM to review progress on cotton research, water management and agricultural innovation.

6.4 INDUSTRIAL PROJECTS

In the fiscal year 2025-26, the Office of Research, Innovation, and Commercialization (ORIC) at MNS University of Agriculture, Multan, excelled in managing industrial/contract research projects with a

substantial combined portfolio. During the year, ORIC secured funding for 08 new industrial/contract research projects amounting to PKR 39.73 million, In addition 01 industrial project was revised and re-awarded on 09 June 2026 with an enhanced budget of PKR 54.807 million, an increase of PKR 20.89 million over its original allocation. Currently, 20 industrial projects are active and on-going, with a budget allocation of PKR 131.83 million, while 03 industrial projects worth PKR 5.77 million were successfully completed. These projects span various research and innovation domains, reflecting the university's commitment to addressing real-world challenges through cutting-edge R&D. The substantial budget and diverse project portfolio highlight ORIC's dynamic engagement with industry partners, showcasing its pivotal role in driving economic and social progress.

6.4.1 INDUSTRIAL PROJECT – ESTABLISHMENT AND PROPAGATION OF MISCANTHUS AS A PULP AND ENERGY CROP (PHASE-II)

This project, funded by Bulleh Shah Packages Limited (BSPL), Lahore, with a budget of PKR 12.89 million for a duration of 36 months, is led by Dr. Muhammad Baqir Hussain, Department of Soil and Environmental Sciences. Building on the successful completion of Phase-I, the project focuses on field validation and large-scale propagation of Miscanthus as a sustainable pulp and bioenergy crop, contributing to renewable raw-material supply chains and climate-smart land use.

6.4.2 INDUSTRIAL PROJECT – FROM WASTE TO WEALTH: ENTOMO-COMPOST AND ENERGY RECOVERY FROM SMALL-RUMINANT GUT RESIDUES

Supported by KADYM FOOD CO., Spain, with a budget of PKR 4.50 million for 36 months, this internationally funded project is led by Dr. Muhammad Nadir Naqqash, Department of Entomology. The initiative aims to convert goat and sheep gut residues into entomo-compost and recover energy, promoting circular-economy solutions and value addition from agricultural waste streams.

6.4.3 INDUSTRIAL PROJECT – MANAGEMENT OF EDDY COVARIANCE FLUX TOWERS AND CANAL FLOW MEASUREMENT

Funded by the Food and Agriculture Organization (FAO) of the United Nations with a budget of PKR 6.33 million, this project is led by Dr. Muhammad Saifullah, Department of Agricultural Engineering. It involves the operation and management of Eddy Covariance flux towers in Multan and Jalalpur Pirwala and support in canal flow measurement in Khanewal District, generating critical data for climate-smart agriculture and water resource management.

6.4.4 INDUSTRIAL PROJECT – CARBON QUANTUM DOTS MEDIATED DRUG MANAGEMENT OF COMMON SCAB OF POTATO

With funding of PKR 3.41 million from Fair Field Enterprise, Multan, for 24 months, this project is led by Dr. Akhtar Hameed, Department of Plant Protection. It focuses on the synthesis and application of carbon quantum dots for the management of common scab of potato, offering an innovative, nanotechnology-based crop-protection solution.

6.4.5 INDUSTRIAL PROJECT – DATA-DRIVEN SMART MEDIA MONITORING AND DECISION SUPPORT SYSTEM FOR CLIMATE-SMART GREENHOUSE

Funded by Spurt International (Pvt.), Faisalabad, with a budget of PKR 2.57 million for 24 months, this project is led by Dr. Aamir Hussain, Institute of Computing. It aims to design a data-driven decision-support system for climate-smart greenhouse management, integrating sensing and analytics for optimized resource use.

6.4.6 INDUSTRIAL PROJECT – EVALUATION OF CHERRY TOMATO & CAPSICUM (F1) UNDER SEMI-CONTROLLED GREENHOUSE CONDITIONS

Supported by Harvest Seed Corporation (Pvt. Ltd.), Larkana, with a budget of PKR 1.22 million for 24 months, this project is led by Dr. Nazar Faried, Department of Horticulture. It evaluates the performance of F1 cherry tomato and capsicum hybrids under semi-controlled greenhouse conditions in semi-arid climates, supporting protected-agriculture value chains.

6.4.7 INDUSTRIAL PROJECT – DATA ANALYSIS, CROP MAPPING AND PRODUCTIVITY ASSESSMENT IN BAHAWALPUR AND BAHAWALNAGAR

Funded by the Food and Agriculture Organization (FAO) with a budget of PKR 5.61 million, this project is led by Dr. Muhammad Saifullah, Department of Agricultural Engineering. It focuses on seasonal and annual crop analysis, crop mapping, water requirement estimation and productivity assessment in Bahawalpur and Bahawalnagar districts.

6.4.7 INDUSTRIAL PROJECT – WATER ACCOUNTING FOR THE INDUS BASIN, PUNJAB PROVINCE, AND SINDH PROVINCE IN PAKISTAN

Funded by the FutureWater Foundation, Wageningen, Netherlands, under the Food and Agriculture

Organization of the United Nations (FAO) – GCF Funded Project, with a budget of approximately PKR 3.2 million, this international contract research project is led by Dr. Muhammad Saifullah, Department of Agricultural Engineering, with Prof. Dr. Irfan Ahmed Baig, Professor/Dean FSSH, Department of Agricultural & Resource Economics, as Co-Principal Investigator. The project focuses on the development of a Water Accounting (WA) framework for Punjab Province based on FAO methodology, remote sensing and in-situ data, including model development, calibration and validation, along with capacity development of FAO Pakistan and relevant government stakeholders through two rounds of five-day hands-on training.

6.4.9 INDUSTRIAL PROJECT (REVISED) – DEVELOPMENT AND PROMOTION OF HYBRID COTTON SEED PRODUCTION FOR INCREASING QUALITY AND QUANTITY OF COTTON IN PAKISTAN

This flagship international public-private partnership project, led by Dr. Zulqurnain Khan (IPBB), was revised and re-awarded on 09 June 2026 with an enhanced budget of PKR 54.807 million for 60 months (January 2026–December 2030). The project is a joint venture among MNSUAM, Guard Agricultural Research & Services (Pvt.) Ltd., Multan, the Biotechnology Research Institute (BRI), CAAS, China, and the Cotton Research Institute (CRI), China. It aims to develop and promote hybrid cotton seed with improved resistance to biotic and abiotic stresses, enhance fiber quality and yield, strengthen public-private partnerships, develop germplasm and hybrid breeding lines, and build capacity in hybrid seed production. The initiative is expected to increase cotton productivity by 15–20% through large-scale adoption of hybrid cotton in Pakistan.

INDUSTRIAL PROJECTS / GRANTS / FUNDING / SUPPORT (NEW AWARDS & REVISED PROJECT, 2025-26)

Sr. No.	Title	Funding Agency	Award Amount (Million PKR)	Current Status
1	Carbon Quantum Dots Mediated Drugs Management of Common Scab of Potato	Fair Field Enterprise, Multan	3.41	On-Going
2	Evaluation of Cherry Tomato & Capsicum (F1) under Semi-Controlled Greenhouse	Harvest Seed Corporation (Pvt. Ltd.), Larkana	1.22	On-Going
3	Data-Driven Smart Media Monitoring & Decision Support System for Climate Smart Greenhouse	Spurt International (Pvt.), Faisalabad	2.57	On-Going

4	From Waste to Wealth: Entomo-compost and Energy Recovery from Small-Ruminant Gut Residues	KADYM FOOD CO., Spain	4.50	On-Going
5	Establishment and Propagation of Miscanthus as a Pulp and Energy Crop (Phase-II)	Bulleh Shah Packages Limited (BSPL), Lahore	12.89	On-Going
6	Management of Eddy Covariance Flux Towers in Multan & Jalalpur Pirwala	FAO, United Nations	6.33	On-Going
7	Data Analysis, Crop Mapping, Water Requirement & Productivity Assessment (Bahawalpur/Bahawalnagar)	FAO, United Nations	5.61	On-Going
8	Water Accounting for the Indus Basin, Punjab Province, and Sindh Province in Pakistan	Water Accounting for the Indus Basin, Punjab Province, and Sindh Province in Pakistan	3.20	On-Going
9	Development and Promotion of Hybrid Cotton Seed Production for Increasing Quality and Quantity of Cotton in Pakistan (Revised/Re-awarded 09-Jun-2026)	Guard Agricultural Research & Services, Multan	54.807	On-Going
	Total (New Awards): PKR 60.627 million			

6.5 PATENTS FILED

Sr. No.	Name of Lead Inventor	Title of Invention	Type of Invention	Key Scientific Aspects
1	Dr. Mudssar Ali, Associate Professor, Entomology	BeeSol Space – A Biodegradable Nesting Space for Solitary Bees	Product	A biodegradable, eco-friendly artificial nesting structure designed to support and conserve populations of solitary bees, which are key pollinators of agricultural and horticultural crops.

6.6 CONSULTANCY CONTRACTS EXECUTED THROUGH ORIC WITH INDUSTRY, COMMERCE OR GOVERNMENT

Faculty members of MNS University of Agriculture, Multan, provided consultancy services to industry, commerce and government organizations through the facilitation of ORIC, contributing technical expertise, capacity-building training and evidence-based advisory support to external stakeholders while generating additional resources for the University. In addition to these faculty-led assignments, the Central Lab System (CLS), ORIC, extended laboratory testing and analytical services to industry, research organizations, farmers and the general public on a paid basis. During the financial year 2025-26, CLS-ORIC provided lab analysis services to 39 different clients, reflecting the growing confidence of industry and other stakeholders in the University's testing facilities and reinforcing ORIC's role in generating self-sustained revenue while strengthening university-industry linkages. The following paid consultancy assignments were undertaken by faculty members through ORIC during the year:

6.6.1 CONSULTANCY: "EVALUATION OF THE BIO-FORTIFIED ZINC WHEAT PROJECT OF THE GLOBAL ALLIANCE FOR IMPROVED NUTRITION (GAIN)" PROVIDED TO PRAXSYS ASSOCIATES (PA), PAKISTAN

Mr. Bilal Ahsan, Lecturer, Agri-Business, provided consultancy services from September 26, 2025 to October 31, 2025 (10 working days), for a value of PKR 0.15 million. The assignment comprised pre-fieldwork preparation and participation in training workshops, field data collection through Key Informant Interviews and Focus Group Discussions, data management and reporting, submission of deliverables, and ensuring ethical compliance, safeguarding and confidentiality. The evaluation supported an evidence-based assessment of the bio-fortified zinc wheat intervention. The consultancy has been completed.

6.6.2 CONSULTANCY: "CAPACITY BUILDING TRAINING WORKSHOP ON REGENERATIVE AGRICULTURE, VERMICOMPOST AND STRENGTHENING OF VERMICOMPOSTING SETUP AT MNSUAM" PROVIDED TO FARMERS DEVELOPMENT ORGANIZATION (FDO), PAKISTAN

Dr. Muqarrab Ali, Associate Professor, Climate Change, is providing consultancy services during April 10–30, 2026, for a value of PKR 0.20 million. The scope includes technical and advisory services for producing good-quality vermicompost under regenerative agriculture, conducting two farmer training sessions in the target districts with practical demonstrations of vermicomposting, and strengthening the vermicomposting site at MNSUAM.

6.6.3 CONSULTANCY: "CAPACITY BUILDING OF RICE PRODUCERS ON CLIMATE-RESILIENT AGRICULTURE, ORGANIC RICE PRODUCTION AND SEED QUALITY IMPROVEMENT" PROVIDED TO IJK CONSULTANCY, KAMOKE, DISTRICT GUJRANWALA

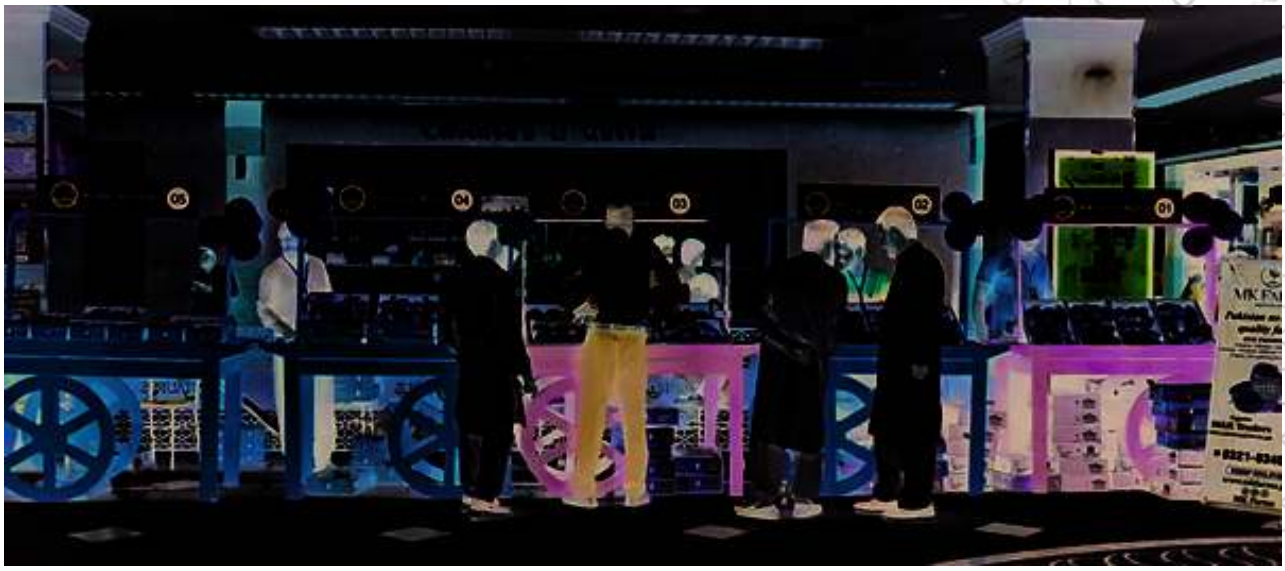
Dr. Muqarrab Ali, Associate Professor, Climate Change, is providing consultancy services from 25 June 2026 to 25 July 2026 for a value of PKR 0.20 million, engaged by IJK Consultancy (Ali Arcade Plaza, Tehsil Kamoke, District Gujranwala). The scope of the assignment includes conducting eight (08) field training sessions for rice producers; training farmers on climate-resilient pre- and post-harvest practices; providing training on organic rice production; enhancing farmers' knowledge of seed-quality improvement techniques; and submitting training reports, attendance records and activity documentation. The consultancy strengthens farmers' capacity for sustainable, climate-resilient and organic rice production and reinforces MNSUAM's role in applied, community-oriented advisory services. The consultancy is in progress.

6.7 CONSULTANCY CONTRACTS EXECUTED THROUGH ORIC WITH INDUSTRY, COMMERCE OR GOVERNMENT

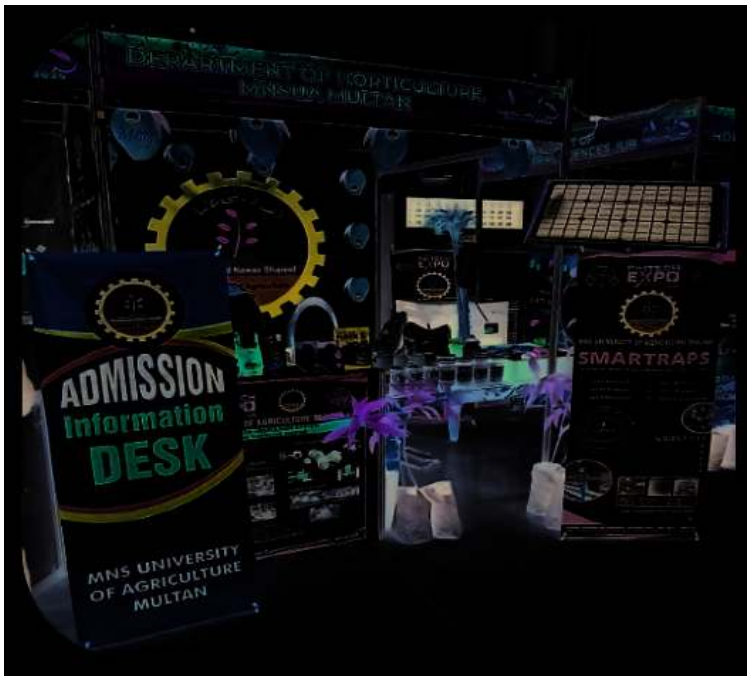
Under its mandate to promote research, innovation and entrepreneurship, ORIC actively engaged the University's faculty, students and incubated startups in a wide range of exhibitions, festivals, showcases and outreach platforms at the provincial, national and international level during 2025-26. These engagements provided a business-oriented platform to display research-based technologies, value-added products and entrepreneurial ventures, connect growers, industry and exporters with the University's research outputs, and reinforce MNSUAM's position as a leading innovation-driven institution in the agriculture sector. Key initiatives undertaken during the year are detailed below:

6.7.1 9TH ANNUAL INTERNATIONAL MANGO FESTIVAL, THE CENTAURUS MALL, ISLAMABAD

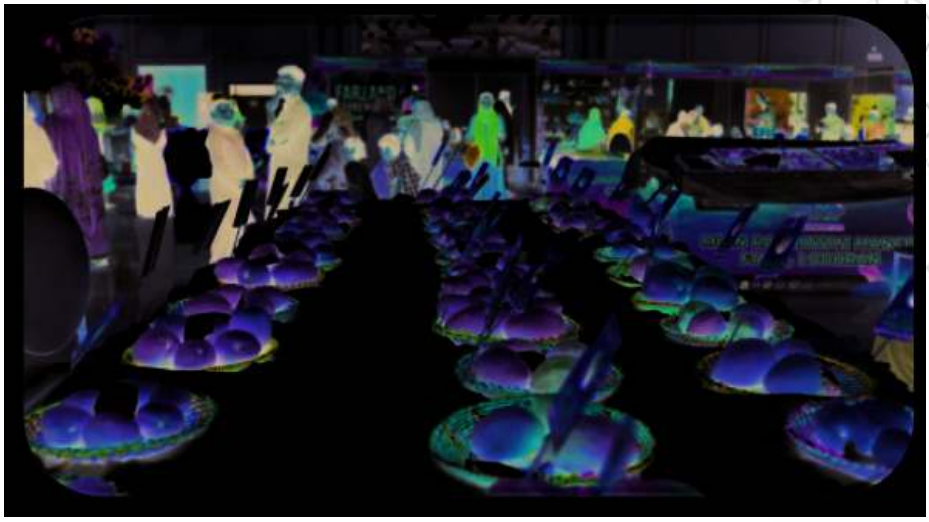
The 9th Annual International Mango Festival was jointly organized by MNSUAM, The Centaurus Mall, Islamabad, and the Mango Research Institute (MRI), Multan, from July 07 to 13, 2025. Coordinated through the ORIC, the festival showcased the rich diversity of Pakistani mango cultivars, highlighted business and export potential, and promoted value addition in the mango sector, reinforcing Multan's identity as the "Mango Capital" of Pakistan. More than 500 growers engaged with the platform and international delegates participated, opening avenues for export linkages and agro-tourism.



6.7.2 PARTICIPATION IN THE 3RD NATIONAL MANGO FESTIVAL, DHA BAHAWALPUR



MNSUAM participated in the 3rd National Mango Festival held at DHA Bahawalpur from July 18 to 20, 2025. Over the three days, the university's Outreach and Home Sciences teams showcased value-added mango products, smart-farming technologies and research outputs, engaging around 900 visitors. MNSUAM was recognized with a Shield of Appreciation by DHA Bahawalpur, and the participation strengthened farm-to-market linkages and public awareness of mango value addition.

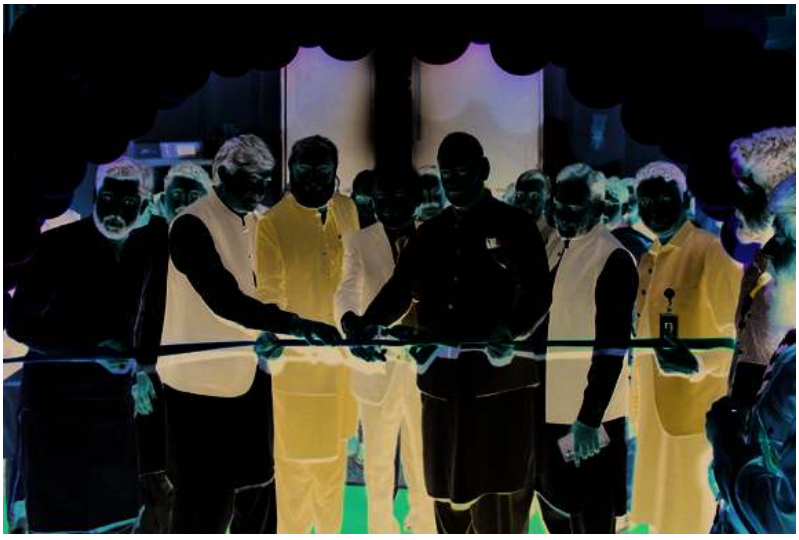


6.7.3 1ST MANGO FESTIVAL AT GOLD CREST MALL, LAHORE

MNSUAM participated in the 1st Mango Festival at Gold Crest Mall, Lahore, on July 25, 2025, promoting premium mango varieties and value-added products to urban consumers, traders and dignitaries. The event provided a business-oriented platform linking growers with high-end markets and enhanced the visibility of Pakistan's mango diversity.

6.7.4 9TH ANNUAL MANGO FESTIVAL AT MNS UNIVERSITY OF AGRICULTURE, MULTAN

The 9th Annual Mango Festival was organized on the campus of MNS University of Agriculture, Multan, on August 02, 2025, showcasing Pakistan's mango heritage and advancements in mango research, production and value addition. The festival brought together policymakers, researchers,

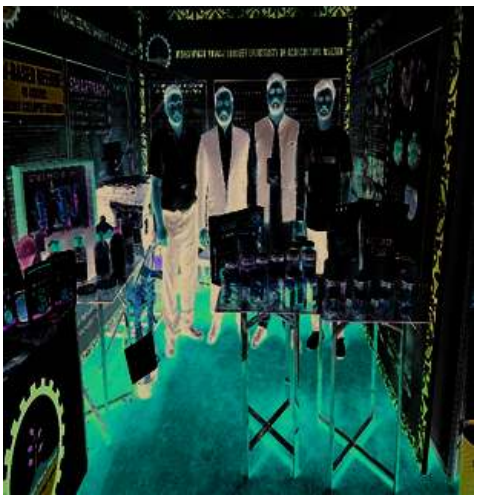


industry representatives, growers and exporters to promote sustainable mango cultivation and strengthen linkages among stakeholders. Coordinated through ORIC, the on-campus festival featured the display of numerous indigenous and exotic mango cultivars, value-added mango products, and live demonstrations, providing growers a business-oriented platform and reaffirming MNSUAM's leadership in the mango value chain.



6.7.5 MNSUAM SHOWCASED RESEARCH, INNOVATION & STARTUPS AT PAKISTAN AGRI SHOW 2025, LAHORE

MNSUAM participated as an exhibitor in the Pakistan Agri Show 2025, held on 8–10 September 2025 at the Expo Centre, Lahore. Organized by ORIC and led by Mr. Muhammad Tariq Rashid (Research Officer, ORIC) and team, the MNSUAM stall showcased research projects, value-added products and student startups in crop improvement, sustainable plant protection, horticulture, resource management and AI/IoT-based agriculture, while entrepreneurial ventures from BIAEC highlighted youth-led agri-business innovation. The delegation explored collaborations with agribusinesses, seed companies and allied industries, reaffirming MNSUAM's commitment to innovation, industry linkages and sustainable agricultural development.







6.7.6 INAUGURATION OF THE MANGO DEHYDRATION & VALUE ADDITION FACILITY

On September 09, 2025, MNSUAM inaugurated its Mango Dehydration & Value Addition Facility, jointly established with the Pakistan Horticulture Development and Export Company (PHDEC) and funded by the Export Development Fund (EDF). Distinguished guests from PHDEC, TDAP and the UK & UAE Trade Missions attended, underscoring the global market potential for dried-mango exports. Vice Chancellor Prof. Dr. Asif Ali (T.I.) inaugurated the facility, terming it a model for university-industry collaboration and sustainable agricultural growth. The project is led by Mr. Bilal Ahsan, Lecturer, Agri-Business and Entrepreneurship Development.



6.7.7 BIAEC ENTREPRENEURIAL WEEK 2025

The Business Incubation and Agriculture Entrepreneurship Centre (BIAEC), MNSUAM, organized Entrepreneurial Week 2025 from 17–24 November 2025, bringing together international scholars, industry experts, development representatives and young entrepreneurs. Distinguished guests from Türkiye, Pakistan and UNESCO participated, sharing insights on global entrepreneurship and technology-driven business models. Under the leadership of Prof. Dr. Mubashir Mehdi, Director ORIC, and Vice Chancellor Prof. Dr. Asif Ali (T.I.), incubated startups showcased their products and received mentorship, highlighting emerging opportunities in agri-business and youth-led innovation.

6.7.8 MNSUAM AT THE 3RD INTERNATIONAL FOOD & AGRICULTURE EXPO (FOODAG 2025), KARACHI

MNSUAM participated in the 3rd International Food & Agriculture Expo (FoodAg 2025) held from 25-27 November 2025 at the Karachi Expo Centre, organized by TDAP with over 500 exhibitors and 850+ international buyers. The University showcased innovative value-added food products, including dehydrated fruits and vegetables developed through its research and incubation programs, and engaged in B2B and B2C meetings with delegates from Poland, Türkiye, Nigeria, Libya, Japan, South Korea, China and Italy, with several buyers requesting bulk quotations for dried mango, apple, strawberry, date powder and onion powder. The participation strengthened MNSUAM's industry linkages and export visibility.

6.7.9 MNSUAM SECURED 1ST POSITION AT AGRITHON 2025

MNSUAM secured the 1st Position Prize at AgriThon 2025, held on 10–11 December 2025 at the University of Agriculture, Faisalabad (UAF), organized by the Business Incubation Center (BIC), UAF, with the Asian Development Bank (ADB) and CABI. A total of eight projects from MNSUAM participated. The winning project, "Diabetes Mellitus E-Health Control System," was developed under the supervision of Dr. Aamir Hussain, Assistant Professor, and presented by students M. Aswad and Umer Ejaz (BS Data Science, Institute of Computing), with support from ORIC and BIAEC team under supervision of Prof. Dr. Mubashir Mehdi, Director ORIC/BIAEC, MNSUAM. The achievement highlighted MNSUAM's strong culture of student-led innovation and entrepreneurship.





6.7.10 ORIC SHOWCASES MNSUAM RESEARCH AT THE CM PUNJAB INTERNSHIP PROGRAM CEREMONY

On 15 December 2025, the ORIC organized a detailed display of the University's research outputs, innovative solutions, emerging technologies and entrepreneurial initiatives during the Ceremony of the Chief Minister Punjab Internship Program for Agriculture Graduates held at MNSUAM. The showcase demonstrated how research outcomes are being transformed into practical applications and commercial opportunities, strengthening stakeholder engagement and inspiring young graduates toward innovation and entrepreneurship.



6.7.11 MNSUAM PARTICIPATION IN THE ANNUAL CHRYSANTHEMUM SHOW, MULTAN

MNSUAM actively participated in the Annual Chrysanthemum Show held at Qila Kohna Qasim Bagh, Multan, from December 23 to 25, 2025, showcasing hydroponic units for soilless cultivation, smart kitchen-gardening and horticulture techniques, value addition of fruits, vegetables and cereals, a naturally colored cotton variety, disease-resistant wheat and drought-resistant millet varieties, and AI-powered beekeeping. In recognition of its outstanding participation, the Director General of the Parks and Horticulture Authority awarded a certificate to the University.

6.7.12 MNSUAM AT THE HEC TECHNOLOGY IMPACT SHOWCASING EVENT (TIS'25)

MNSUAM participated in the HEC Technology Impact Showcasing Event 2025 (TIS'25) held on 30 December 2025 at the Pak–China Friendship Centre, Islamabad, organized under HEC's Technology Development Fund (TDF) initiative. MNSUAM was represented by TDF project teams led by Prof. Dr.

Umar Farooq, Prof. Dr. Shafqat Saeed, Dr. Sarfraz Hashim, Dr. Muhammad Amir Bakhtavar, Mr. Saqib Yasin and Mr. Muhammad Tariq Rashid (Research Officer ORIC & Focal Person for the event from MNSUAM) who presented innovative solutions in agriculture, biotechnology, food processing and value addition, demonstrating the University's ability to translate research into practical, commercializable technologies.



6.7.13 MNSUAM AT THE WOMEN ENTREPRENEURIAL EXPO (WEXPO 2026), LAHORE

MNSUAM participated in and showcased its research, innovation and entrepreneurial startups at the Women Entrepreneurial Professional Expo (WEPX) 2026 held at the Expo Centre, Lahore, on 8–9 January 2026. The expo was organized by the Women Development Department, Government of Punjab, providing a dynamic platform to promote women-led innovation, creativity and entrepreneurship across Pakistan. The MNSUAM delegation included Ms. Benish Sarfraz, Manager BIAEC and Lecturer in Agribusiness and Entrepreneurship; Dr. Nighat, Assistant Professor, Food Science and Technology; and Dr. Ambreen Naz, Associate Professor and Chairperson, Department of Home Economics. The participation and stall display were facilitated by Mr. Muhammad Tariq Rashid, Research Officer, ORIC. The display reflected the University's strong commitment to research commercialization, startup incubation and women entrepreneurial empowerment.



6.7.14 ORIC REPRESENTS MNSUAM RESEARCH & INNOVATION AT AGRIMALL, MULTAN

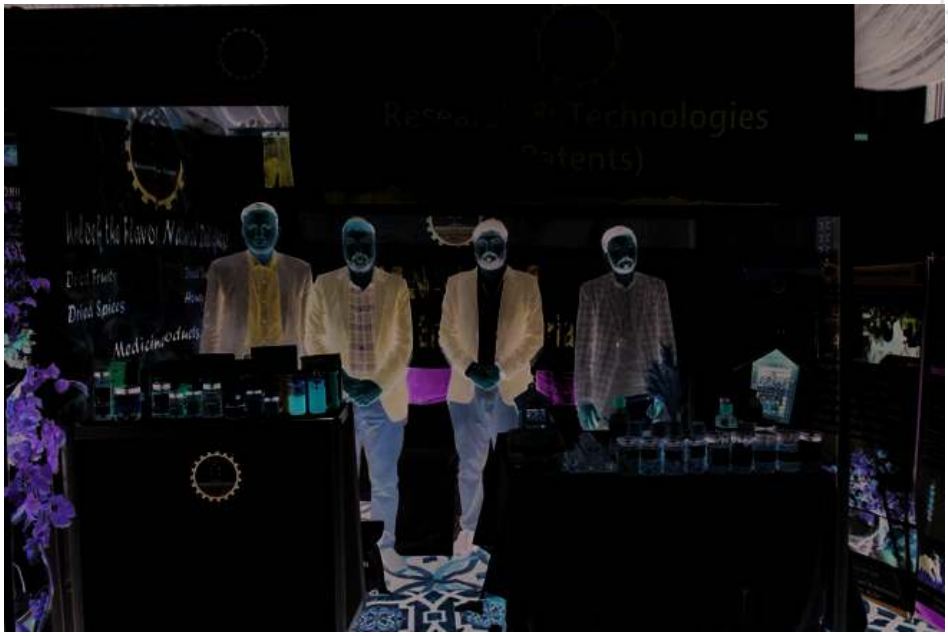


The ORIC represented MNSUAM's research and innovation at AgriMall, Multan, on 04 February 2026. The activity highlighted key initiatives of ORIC MNSUAM and strengthened academia–industry linkages for innovation-driven agriculture and technologies. The engagement provided a platform to connect the University's research outputs and value-added solutions with industry stakeholders and the farming community, reinforcing ORIC's ongoing efforts to translate research into practical, market-oriented applications.



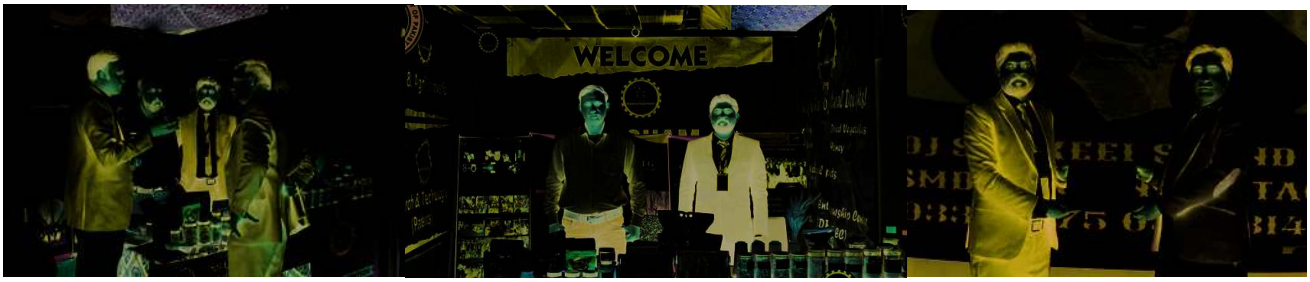
6.7.15 ORIC & BIAEC SHOWCASE AT AFS VENTURE SPARK 2026

The ORIC represented MNSUAM's research, innovation and entrepreneurial startups at AFS–Venture Spark 2026 on 12 February 2026, where the MNSUAM stall featured a dedicated display by ORIC and BIAEC highlighting university-owned research innovations and successful startups incubated at BIAEC, showcasing the journey from research to commercialization.



6.7.16 MNSUAM SHOWCASED RESEARCH AND INNOVATIONS AT THE 2ND SUKKUR TRADE EXHIBITION 2026

MNSUAM participated in the 2nd Sukkur Trade Exhibition and Seminar 2026, organized by the Trade Development Authority of Pakistan (TDAP) at IBA Public School, Sukkur, on February 14–15, 2026. The University showcased its research-based technologies, innovative agricultural solutions, and value-added products, engaging exporters, entrepreneurs, academia, and industry stakeholders. Mr. Muhammad Tariq Rashid (Research Officer, ORIC) represented the University by highlighting innovations in agriculture, biotechnology, food processing, and value addition, demonstrating MNSUAM's commitment to research commercialization, technology transfer, and academia–industry collaboration.



6.8 CAPACITY BUILDING AND STRENGTHENING OF RESEARCH & ACADEMIC LINKAGES

ORIC undertook a series of institutional and capacity-building measures during 2025-26 to strengthen the research culture, compliance framework and human-resource capacity at MNSUAM. The Ethical Institutional Review Board (EIRB) held seven (07) meetings during the year to review research proposals with respect to ethical, biosafety and biosecurity considerations prior to their submission to funding agencies, while the ORIC Steering Committee met twice to review overall progress and seek guidance from industry members for the effective functioning of ORIC. The Central Lab Advisory Committee convened fortnightly meetings for the smooth working of the Central Lab System. Faculty capacity was further strengthened through a dedicated Faculty Development Session on "Career Planning for Academicians: The Road to Success," a capacity-building session with the Pakistan Horticulture Development and Export Company (PHDEC) on quality packaging and branding for value-added horticultural products, and an ORIC delegation visit to IPO-Pakistan, HEC and PSF, Islamabad, to strengthen understanding of intellectual-property management and research commercialization. In parallel, the Business Incubation and Agricultural Entrepreneurship Centre (BIAEC) conducted twelve (12) structured capacity-building sessions for incubated startups during the year, comprising entrepreneurial workshops, domain-specialist sessions, and mentorship and networking sessions, as detailed in the BIAEC section below. Collectively, these measures reflect ORIC's continued commitment to strengthening research governance, ethical compliance and institutional capacity across the University.

6.8.1 ORIC DELEGATION VISIT TO IPO-PAKISTAN, HEC AND PSF, ISLAMABAD

MNSUAM delegation comprising of Dr. Umair Sultan (Agricultural Engineering), Dr. Muhammad Ali Sher (IPBB) and Mr. Muhammad Tariq Rashid, Research Officer, ORIC visited IPO-Pakistan, HEC and PSF, Islamabad, on 27–28 August 2025. At IPO-Pakistan, Chair Ambassador (R) Farukh Amil emphasized IP-protected agri-tech innovation. The delegation also visited at HEC and PSF, strengthening MNSUAM's linkages in research, innovation, intellectual-property management and commercialization.





6.8.2 DIRECTOR ORIC CONDUCTED SESSION ON INNOVATION & COMMERCIALIZATION AT UAF



On 12 September 2025, Prof. Dr. Mubashir Mehdi, Director ORIC/BIAEC, MNSUAM, delivered a session on “Innovation and Commercialization – The Spirit of Entrepreneurship” at the Business Incubation Centre, University of Agriculture Faisalabad (UAF). He emphasized that entrepreneurship is a pathway to self-reliance, poverty alleviation and employment generation, urging youth to transform ideas into market-oriented solutions and highlighting the role of innovation and small businesses in driving economic growth.

6.8.3 MNSUAM KEYNOTE AT THE THIRD NATIONAL UI GREEN-METRIC WORKSHOP

MNSUAM was invited to nominate a keynote speaker for the Third National UI Green-Metric Workshop on Sustainable Universities, held at Grand Asian University, Sialkot, on 17–18 September 2025. Dr. Muqarrab Ali, Associate Professor (Climate Change), delivered the keynote address on the Sustainable Transportation component, highlighting MNSUAM's initiatives in eco-friendly, low-carbon mobility and reinforcing the University's commitment to the UI Green-Metric agenda and sustainable campus development.

6.8.4 POST-FLOOD REHABILITATION AND SEED DISTRIBUTION INITIATIVES FOR FARMERS

MNSUAM, in collaboration with the Mango Research Institute, organized a one-day training workshop on “Post-Flood Management of Mango Orchards” on October 10, 2025 at Mouza Lutfabad, followed

by phased seed distribution for flood-affected farmers. On October 25, 2025, a Farmer Day at the MNSUAM Experimental Farm, Jalalpur Pirwala benefited over 250 farmers, where mustard and pea seeds donated by PCPA and Evyol Group, along with 100 kitchen-gardening kits provided by MNSUAM, were distributed to promote home-based food production. Vice Chancellor Prof. Dr. Asif Ali (T.I.) reaffirmed the University's dedication to farmer support through research-based solutions.

6.8.5 WORLD FOOD DAY 2025 AND JOB FAIR 2025

The Faculty of Food & Home Sciences observed World Food Day on 16 October 2025 under the theme "Hand in Hand for Better Food and Better Future," organizing a seminar and student competitions to promote food security, nutrition and sustainability, strengthening academia-industry linkages with the Multan Chamber of Commerce & Industry. On the same day, MNSUAM organized Job Fair 2025 in collaboration with the MOJAZ Foundation (UNDP-funded) and the Career Development Centre/Placement Bureau, connecting graduates with leading employers including Evyol Group, Syngenta Pakistan, Tara Group, PepsiCo, HBL, BOP and Khushhali Bank.

6.8.6 BIAEC TRAINING SESSION ON "SCALE UP WITH PURPOSE – AN ENTREPRENEURIAL PERSPECTIVE"

The Business Incubation and Acceleration for Entrepreneurs Centre (BIAEC), MNSUAM organized a hybrid training session on "Scale up with Purpose – An Entrepreneurial Perspective" on October 17, 2025 for Cohort-IV startups. Conducted under Prof. Dr. Mubashir Mehdi, Director ORIC, the session guided startups on purposeful branding, digital marketing, SECP registration, investor pitching and sustainable growth, with alumni entrepreneurs sharing their success stories.

6.8.7 MNSUAM–SAVE OUR SOCIETY FOUNDATION (SOSF) MEMORANDUM OF COOPERATION

On October 26, 2025, MNSUAM, through ORIC, signed a five-year Memorandum of Cooperation with the Save Our Society Foundation (SOSF) for joint research and development, technology commercialization and social innovation, reflecting the University's commitment to translating research into community impact.

6.8.8 REGIONAL AGRICULTURE FORUM FOR SOUTH PUNJAB (RAF-SP) MEETINGS

Multiple rounds of the Regional Agriculture Forum for South Punjab (RAF-SP) were convened at MNSUAM during the year, including the 3rd meeting on 7 November 2025 and the 4th meeting on 29 November 2025, chaired respectively by Vice Chancellor Prof. Dr. Asif Ali (T.I.) and the Secretary Agriculture Punjab. The forum advanced coordinated agricultural development across South Punjab, reviewing progress on the Agriculture Complex, the Digital Inventory System, IPR and patent-filing

workshops, demonstration plots, pest-forecasting models and certified nurseries, and strengthening linkages among academia, research institutions, extension departments and the private sector.

6.8.9 MNSUAM–PHDEC SESSION: "FROM FARM GATE TO GLOBAL PLATE"

MNSUAM, in partnership with the Pakistan Horticulture Development and Export Company (PHDEC) and the Ministry of Agriculture and Rural Development, organized a capacity-building session on "From Farm Gate to Global Plate: Quality Packaging and Branding Techniques for Value-Added Horticultural Products" on 11 November 2025. The session educated farmers, entrepreneurs and stakeholders on modern packaging, branding and certification practices (including PakGAP and GlobalGAP) to enhance the market value and export potential of horticultural products. Prof. Dr. Mubashir Mehdi, Director ORIC, was among the notable attendees, and Vice Chancellor Prof. Dr. Asif Ali (T.I.) reaffirmed MNSUAM's commitment to supporting export-readiness through research-based solutions.

6.8.10 WORLD SOIL DAY 2025

On December 5, 2025, MNSUAM celebrated World Soil Day 2025 under the theme "Healthy Soils for Healthy Cities," organized by the Department of Soil & Environmental Sciences in collaboration with Fauji Fertilizer Company Ltd. (FFC) and the Food and Agriculture Organization (FAO). Vice Chancellor Prof. Dr. Asif Ali (T.I.) highlighted that healthy soils are the foundation of sustainable cities and food systems, and speakers urged integration of soil health into climate and city planning.

6.8.11 NATIONAL DIALOGUE ON ENHANCING COTTON PRODUCTION

A National Dialogue on Enhancing Cotton Production in Pakistan was held at MNSUAM on 8 December 2025, chaired by Vice Chancellor Prof. Dr. Asif Ali (T.I.). It brought together leading cotton scientists from PARB, CRI, CCRI, APTMA and PCPA, private-industry representatives, progressive growers, and international experts from Uzbekistan, China and Egypt. Participants shared key recommendations for the revival of cotton production in 2026, focusing on improved seed quality, pest and disease management, mechanization and sustainable agronomic practices.

6.8.12 ACADEMIA-INDUSTRY LINKAGES SESSION WITH ENGRO FERTILIZERS LTD.

On December 30, 2025, an Academia-Industry Linkages Session was organized at the Department of Soil and Environmental Sciences, MNSUAM, in collaboration with Engro Fertilizers Ltd. Chaired by Dr. Mubashir Mehdi, Director ORIC, the session featured faculty presentations on innovative fertilizer products aimed at improving fertilizer-use efficiency and environmental sustainability and concluded with a mutual commitment to strengthen research partnerships, joint projects and capacity building.

6.8.13 STRATEGIC MEETING ON COTTON NCVT TRIALS 2026

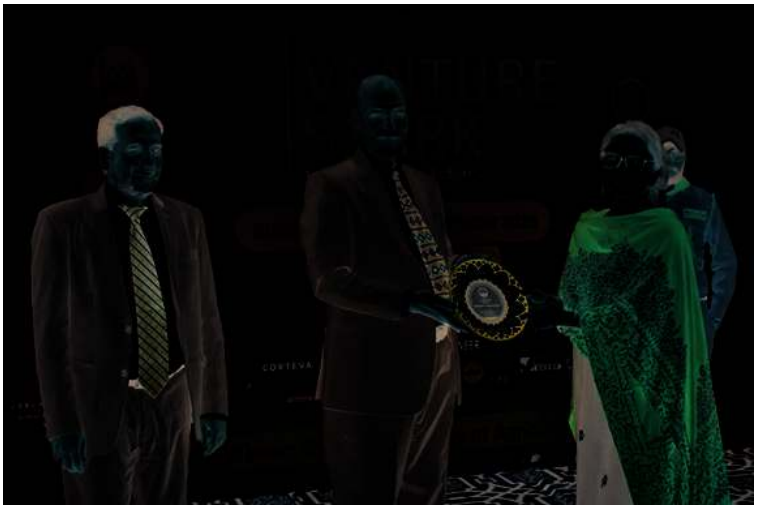
On February 10, 2026, Vice Chancellor and Chairperson NSDRA Prof. Dr. Asif Ali (T.I.) chaired a strategic meeting at MNSUAM on the implementation of the Cotton National Coordinated Varietal Trials (NCVT) 2026, attended by representatives of PCCC, CCRI, CRI, FSCRD, GPI and NSDRA. The meeting focused on transparency, standardization and effective implementation of NCVT trials to ensure reliable varietal performance assessment across Pakistan's cotton-growing regions.

6.8.14 3RD INTERNATIONAL CONFERENCE ON FOOD SECURITY AND VALUE CHAIN SYSTEMS (ICFSVC-2026)

The 3rd International Conference on Food Security and Value Chain Systems: Innovative Pathways for Sustainability and Resilience was held at MNSUAM from February 11–13, 2026, attracting 110 abstracts from 13 countries with 52 oral presentations. The three-day event brought together national and international experts, researchers, policymakers, development partners and students to explore solutions for sustainable agriculture, resilient food systems, climate adaptation, digital agriculture and strengthened value chains, and concluded with policy recommendations aligned with the Sustainable Development Goals.

6.8.15 6TH AFS VENTURE SPARK 2026

The 6th edition of AFS Venture Spark 2026 was organized by MNSUAM on February 12, 2026, as a premier platform to promote entrepreneurship, innovation and applied research. The event attracted participation from 34 universities, showcased 100 proposals and engaged more than 350 participants, with over 15,000 visitors nationwide including representatives from academia, the seed sector, banking institutions and industry. During the event, MNSUAM formalized Agreements of Cooperation with three leading seed-sector partners including Akora Seed Company, Petal Seed Company and Jullundur Seed Corporation, advancing academia-industry integration, joint research, varietal development and technology transfer.



6.8.16 MNSUAM AND FAO FORMALIZE AGREEMENT ON AGRICULTURAL WATER MANAGEMENT

On February 17, 2026, Vice Chancellor Prof. Dr. Asif Ali (T.I.) visited the FAO Office, Islamabad, to sign a Letter of Agreement on enhancing agricultural water productivity, launching the project "Data Analysis, Crop Mapping, Water Requirement and Productivity Assessment in Bahawalpur and Bahawalnagar Districts" under FAO's WaPOR framework. The agreement, signed with FAO Country Representative Mr. James Okoth, strengthened cooperation for evidence-based water management and improved crop productivity in Southern Punjab.

6.8.17 FACULTY DEVELOPMENT SESSION ON CAREER PLANNING FOR ACADEMICIANS

A faculty development session titled "Career Planning for Academicians: The Road to Success" was jointly organized by the Institute of Plant Breeding and Biotechnology and the Directorate of External Linkages on February 16, 2026. Delivered by Prof. Dr. Muhammad Aamer Mehmood (GC University Faisalabad), the session focused on strategic academic planning, research portfolio development, international collaboration and securing research funding, strengthening faculty capacity and research-driven academic growth.

6.8.18 6TH REGIONAL AGRICULTURE FORUM MEETING

On February 25, 2026, the 6th meeting of the Regional Agriculture Forum was held at MNSUAM under the chairmanship of Vice Chancellor Prof. Dr. Asif Ali (T.I.), bringing together research institutions, government departments and industry stakeholders. The forum reviewed progress on agricultural research, the Cotton Plan 2026, digital inventory management and adaptive research programs, emphasizing innovative technologies, resource efficiency and data-driven decision-making for sustainable agricultural development in South Punjab.

6.8.19 FIELD DEMONSTRATION OF THE LOCALLY DEVELOPED INTEGRATED POTATO DIGGER

Under the PSF-funded project (PSF/NSLP/P-MNSUAM-961), a field demonstration of a locally developed integrated potato digger was conducted on March 09, 2026, led by Dr. Umair Sultan, Department of Agricultural Engineering. The prototype was field-tested in the presence of AMRI experts, horticulture specialists, a PepsiCo representative and local manufacturers, advancing indigenous farm mechanization for potato growers.

6.8.20 INTERNATIONAL ROUNDTABLE ON RHODES GRASS CULTIVATION

MNSUAM hosted an International Roundtable on Rhodes Grass Fine Cut Cultivation on May 12, 2026, inaugurated by Vice Chancellor Prof. Dr. Asif Ali (T.I.), with participation from growers, foreign experts

and industry stakeholders and support from Maxim Agri Private Limited, Pakistan. The roundtable promoted export-quality fodder production and highlighted opportunities for accessing Gulf markets, strengthening industry linkages in the fodder value chain.

6.8.21 INTERNATIONAL CONFERENCE ON SUSTAINABLE COTTON PRODUCTION IN PAKISTAN

MNSUAM organized a two-day International Conference on Sustainable Cotton Production in Pakistan in June 2026, bringing together scientists, policymakers, farmers and industry from home and abroad. A major highlight was the launch of Pakistan's first Online Cotton Basic Database, developed by MNSUAM, described as a groundbreaking initiative to strengthen cotton genetics research, breeding programs and the development of improved cotton varieties. International experts advocated stronger fiber-quality standards and a national disease-surveillance network, drawing on lessons from the US, China and Australia.

6.8.22 BUSINESS INCUBATION AND AGRICULTURAL ENTREPRENEURSHIP CENTRE (BIAEC)

The Business Incubation and Agricultural Entrepreneurship Centre (BIAEC), MNSUAM, aims to cultivate a culture of entrepreneurship among the youth, including students and young professionals of South Punjab, by mobilizing the new generation toward economic development through the launch of businesses and social enterprises. BIAEC provides dedicated counselling and mentorship to students and supports them in converting innovative ideas into viable, market-oriented businesses.

6.8.23 CURRENT DEVELOPMENTS AT BIAEC

During 2025-26, BIAEC was ranked the top Business Incubation Centre in Pakistan in the “W” category for the third consecutive year under the HEC BIC Assessment (2024-25). The Centre successfully completed two phases of the Female Ambassador Program of the Women Development Department, Government of Punjab, under which two MNSUAM female students were nominated and subsequently selected as campus ambassadors, with a monthly stipend paid by WDD, GoP, while one BIAEC startup secured a funding grant of PKR 1,000,000 through the Female Youth Pitch Competition of the Government of Punjab. Nineteen (19) companies incubated at BIAEC are registered with the SECP. The Centre signed an MoU with Aspire Pakistan and established collaborations with NUST Technology Park, LUMS and Silicon Village at Capital Smart City, Islamabad, for joint bootcamps for incubatees, as well as with the State Bank of Pakistan and the Bank of Punjab for sponsorship opportunities and seed-funding support for incubated startups. BIAEC successfully organized the 3rd installment of its flagship business-plan competition, Agriculture Food Security (AFS) Venture Spark 2026, and facilitated commercial linkages for accelerating and incubated companies, including Green Agriculture Services with Mehmood Group and mango clusters, Agri-Tech Solutions with the Better Cotton Project Pakistan, and a faculty-led

startup on dehydrated fruits and vegetables, herbs, spices, essential oils, seeds and honey with the Export Development Fund, Ministry of Commerce. The Centre is supported by a network of more than 50 mentors drawn from industry and academia.

6.8.24 CAPACITY BUILDING SESSIONS FOR INCUBATES

BIAEC conducted twelve (12) structured capacity-building sessions for incubated startups during the year across three categories. Entrepreneurial workshops included training sessions on Innovation and Commercialization (8 May 2025) and Scale Up with Purpose – An Entrepreneurial Perspective (17 October 2025), a bootcamp session on From Ideation to Acceleration with the LUMS Centre for Entrepreneurship (18 August 2026), and a one-day session on Entrepreneurial Perspective – Accelerating Idea into Sustainable Business (18 June 2026). Domain-specialist sessions covered corporate compliance through eZfile (18 June 2025), a bootcamp with NSTP-NUST Islamabad (20 August 2025), a two-day bootcamp on design thinking, branding, product development, marketing, legal compliance and financial management with the Startup HQ Smart Incubation Centre, Capital Smart City (19–21 August 2025), and a seminar on Digital Initiatives and SME Financing in collaboration with the State Bank of Pakistan (11 March 2026). Mentorship and networking sessions comprised a visit and meetup session with startups from Khawaja Fareed University of Engineering (24 April 2025) and orientation sessions for Cohort-4 (24 June 2025) and Cohort-5 (22 May 2026) startups at BIAEC.

6.9 BUSINESS COMPETITIONS

BIAEC organized the selection process for Cohort-5 startups (31 October 2025), the Agriculture Food Security (AFS) Venture Spark 2026 business-plan competition (11–12 February 2026), and Phase-1 of the Pitching Competition of the Punjab Youth Innovation and Incubation Competition at MNSUAM (29 July 2026).

6.9.1 BIAEC STARTUPS

As of 2025-26, BIAEC hosts a diverse portfolio of 33 incubated startups spanning food business, agri-consultancy, health-tech, agri-biotech, horticulture, IoT-based solutions, digital platforms and green manufacturing, reflecting the breadth of youth-led innovation being nurtured at the Centre.

Sr. No.	Name of Startup	Sector / Field
1	Proti-N (Multigrain Flour)	Food Business
2	Agri-Tech Solutions	Agri Consultancy Services
3	Gluco-Agri (A Non-Invasive Diabetes Monitoring System)	Food Business
4	Tissue Culture Plants	Agri-biotech

5	Production of Certified Mango Nursery Plants	Horticulture Nursery Business
6	NutriMeals by Misbah	Food Business
7	Uniflora and Landscaping	Floral & Landscaping Business
8	Beesol Space	Horticulture Business
9	Value Added Sugarcane Juice	Food and Beverages
10	NutriStart – Functional Breakfast & Nutraceutical Solutions	Food Business
11	Dates Powder and its Value Addition	Food and Value Addition
12	Milk Adulteration MultiTest Card with MilQ AI App and Smart Bottle Cap	HealthTech
13	Agro-vista Consultancy	Horticulture Consultancy Services
14	IoT Based System to Detect Chicken Meat Spoilage	Food Safety Solution
15	IoT Based Weather Monitoring System	IoT-based Environmental Monitoring
16	Nutriévea	Female Health & Wellness Business
17	OmniSphere – The Digital Ecosystem	Digital Platform
18	Sustainable Production of Mushroom Using Agricultural Waste	Mushroom Farming Business
19	Women in Engineering (WE)	Wastewater Treatment Business
20	CRAVELAB	Health & Wellness Business
21	Desert Dairy – Camel Milk Value Chain and Marketing Innovation	Agribusiness
22	Disposable Plates from Organic Waste	Agribusiness
23	SafetyX Pro	Vision-AI Safety Monitoring System
24	OZORAY (Hybrid Sterilization of Electrical Devices Using UV and Ozone)	Healthcare Equipment Business
25	Learnly	EdTech Platform
26	Bamboo Craft Corp.	Green Manufacturing
27	Design and Development of Solar Dryer for On-Farm Perishable Produce	Sustainable Energy-Tech Business
28	AI Digital Sales Engine	AgriTech and Automation

29	Website Agri Link	AgriTech E-Commerce
30	Nutrigenesis	Livestock Advisory Platform
31	Small Bio Gas Digester	Sustainable Energy Platform
32	Vetrify	Animal Health Platform
33	Eco-Friendly Heat Insulation Sheet Panel	Green Manufacturing

6.9.2 INTERNSHIPS AND PLACEMENTS

BIAEC-incubated startups provided practical internships and generated employment placements for students during the year. Across the fourteen (14) reporting startups, a cumulative 33 internship slots, 78 placements and 111 jobs were created, benefiting both male and female students, as detailed below:

Sr. No.	Startup Name	Faculty-led / Student-led	Business Type	No. of Internships	No. of Placements	Male/ Female	Total Jobs Created
1	Abrish Honey	Faculty-led	Honey Production and Marketing	4	4	5 Male, 3 Female	8
2	Green Leaf Agriculture Technology	Faculty-led	Agri-services Consultancy Services	4	6	8 Male, 2 Female	10
3	Smart Traps	Faculty-led	Agro Services + IT Solutions	4	10	11 Male, 3 Female	14
4	Green Agriculture Services	Faculty-led	Consultancy Services	4	14	15 Male, 3 Female	18
5	Bytes Software Developme nt	Student-led	IT Solutions	3	7	7 Male, 3 Female	10
6	Multan Fresh Honey	Student-led	Beekeeping	0	3	1 Male, 2 Female	3

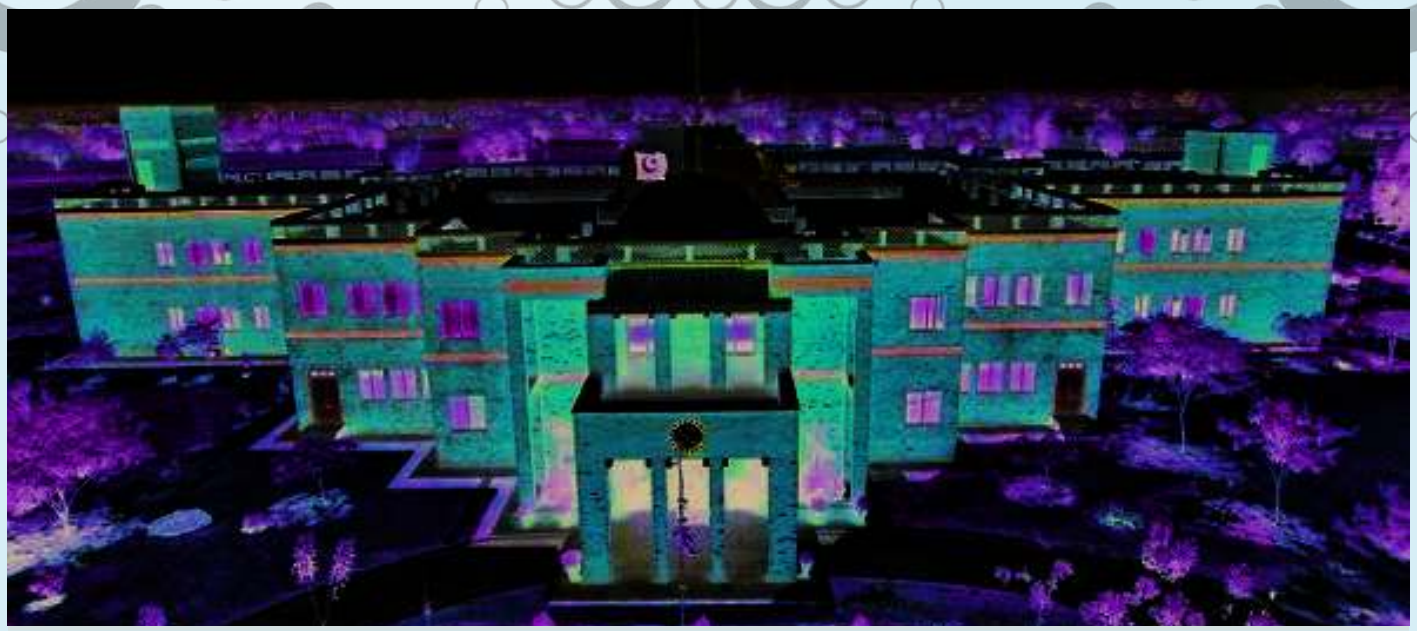
7	Honey World	Student-led	Honey Production	3	3	3 Male, 3 Female	6
8	Puchick	Student-led	Online Platform	1	9	6 Male, 4 Female	10
9	Al-Saif	Student-led	Food Market	2	2	3 Male, 1 Female	4
10	Proti-N (Multigrain Flour)	Student-led	Food Product	2	2	4 Male	4
11	Graphic Designing and Coaching Services	Student-led	Digital Marketing & Graphic Designing	1	2	2 Male, 1 Female	3
12	Pioneer Aqua (Value Added Fish Products)	Student-led	Food Business	4	6	7 Male, 3 Female	10
13	Moringlay (Organic Moringa)	Student-led	Organic Moringa Powder	1	2	3 Male	3
14	Agri Tech Solutions	Student-led	Agri Consultancy Services	0	8	3 Male, 5 Female	8
Total				**33**	**78**		**111**

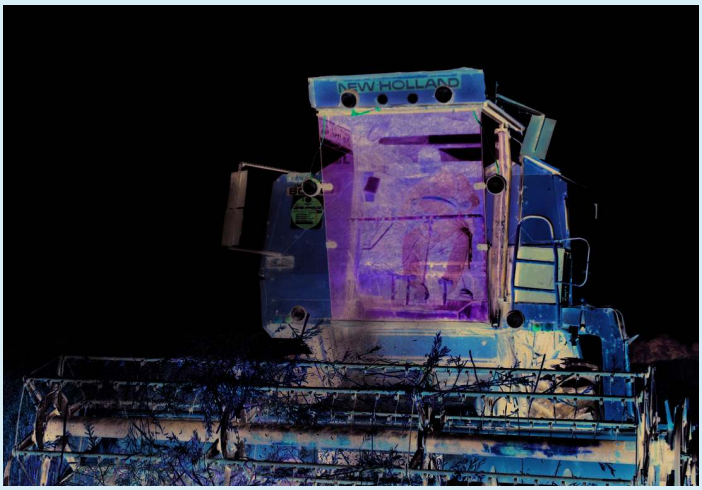
STRENGTHENING OF PHYSICAL INFRASTRUCTURE



Chapter 7

Strengthening of Physical Infrastructure











Chapter 7

Strengthening of Physical Infrastructure







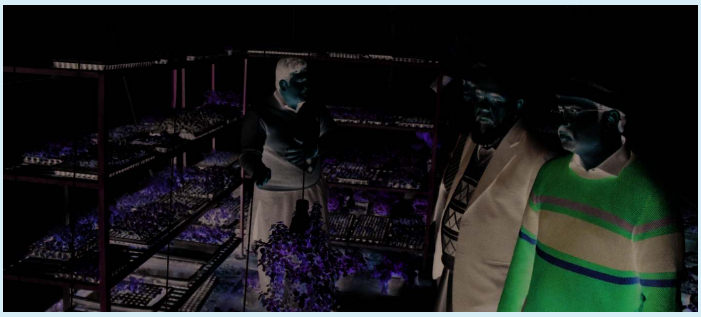




Chapter 7

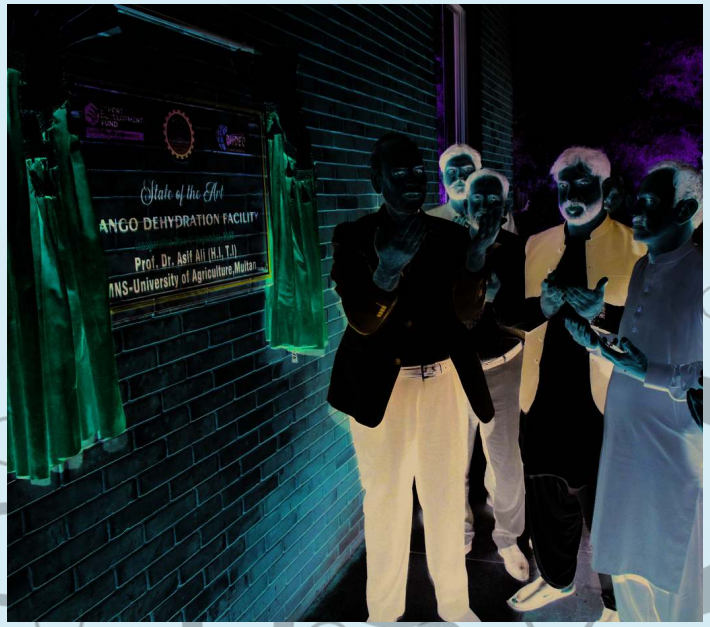
Strengthening of Physical Infrastructure









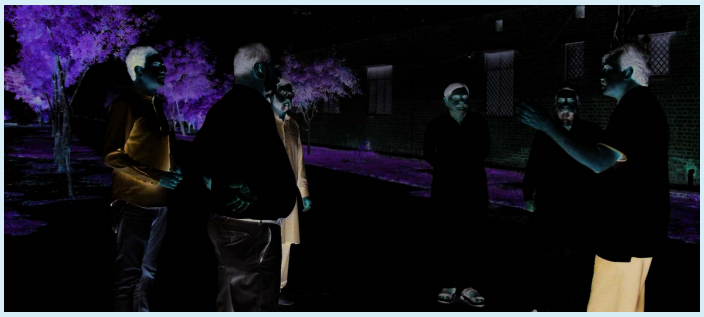


Chapter 7

Strengthening of Physical Infrastructure







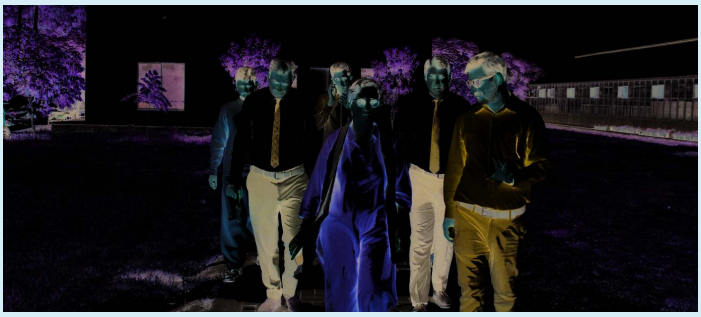




Chapter 7

Strengthening of Physical Infrastructure











CHAPTER 07

STRENGTHENING OF PHYSICAL INFRASTRUCTURE

7.1 INTRODUCTION

The Directorate of Planning and Development (P&D) at Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) is responsible for strategic planning, development initiatives, and infrastructure expansion of the university. It is actively engaged in planning and execution of development projects aimed at strengthening academics, research, and support infrastructure. The Directorate identifies infrastructure requirements and is involved in preparing development proposals, coordinating with funding agencies, monitoring project implementation, and ensuring that development schemes are completed in accordance with approved scope, quality standards, cost, and timelines in collaboration with Engineering Construction Department of the University.

During the Financial Year 2025–26, the University continued to strengthen its physical infrastructure through the implementation of three major development projects funded by the Higher Education Commission (HEC) under Public Sector Development Program (PSDP) and the Government of Punjab under the Annual Development Program (ADP). These projects are aimed at expanding academic facilities, enhancing research capacity, improving residential accommodation, strengthening utility infrastructure, and providing a modern learning environment for students, faculty, and researchers.

7.2 DEVELOPMENT PORTFOLIO AT A GLANCE

The Directorate of Planning and Development has been managing a diversified development portfolio comprising both ongoing and completed development projects since inception of the University. The following projects collectively represent a significant investment (2016-26) in the University's physical infrastructure and are expected to substantially improve teaching, learning, research, student services, and institutional capacity.

Sr. No.	Development Project	Funding Source	Approved Cost (Rs. Million)	Status
1	Provision of Basic Facilities at MNS University of Agriculture, Multan	PSDP-HEC	1,356.378	Ongoing
2	Strengthening of MNS University of Agriculture, Multan	ADP-GoP	646.600	Substantially Completed
3	National Crop Genomics and Speed Breeding Center for Agriculture Sustainability	ADP-GoP	689.197	Substantially Completed

4	Establishment of MNS University of Agriculture, Multan (Phase-II)	ADP-GoP	1700.243	Completed
5	Provision of Fresh Irrigation Water & Other Basic Infrastructure Facilities at JPPW Farm	ADP-GoP	1,746.258	Completed
6	Provision of Fresh Irrigation Water & Other Basic Infrastructure Facilities at JPPW Farm	ADP-GoP	170.000	Completed
7	Improvement in Breeding and Seed Production of Fodder Crops	ADP-GoP	9.472	Completed
8	Commissioned Research for the development of Cotton Seed	ADP-GoP	90.935	Completed
9	Enhancing Productivity In 10 Low Producing Tehsils Through Deployment of Agri Scientists at Farm Level	ADP-GoP	200.00	Completed
10	Construction of Sardar Tanveer Ilyas Library	Donation	30.000	Completed
11	Construction of Fatima-Tu-Zahra Masjid	Donation	116.710	Completed
	Total		**6755.793**	

7.3 ON-GOING DEVELOPMENT PROJECTS

7.3.1 PROVISION OF BASIC FACILITIES AT MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE, MULTAN

PROJECT OVERVIEW:

The project "Provision of Basic Facilities at Muhammad Nawaz Shareef University of Agriculture, Multan" was approved by the sponsoring agency, Higher Education Commission, Islamabad, on 19.03.2021 for a cost of Rs. 1,356.378 million with a gestation period of 36 months under PSDP. Following the issuance of Administrative Approval by the Higher Education Commission on 07.07.2023, implementation activities commenced. The project is designed to address the University's rapidly growing academic requirements and will enhance teaching/research infrastructure capacity to accommodate increasing student enrolment.

SCOPE OF WORK:

The approved scope of the project includes construction of Academic & Lecture Theatre Block, Central Library (First Floor), Student Hostels, Multipurpose Hall, Faculty Hostel, Student transport facilities, External development and landscaping, Laboratory equipment, ICT equipment and Furniture and fixtures.

PROJECT PROGRESS

The cumulative funds released under the scheme up to preceding financial year were Rs. 140 million. During the CFY (2025-26), funds amounting Rs. 254 million were released and utilized fully. Civil work activities remained in progress throughout the reporting year. The column work of Academic and Lecture Theater building is completed and partial roof shuttering is in progress. The Foundation works of Multipurpose Hall is completed and reinforced concrete column works is in progress. Construction activities will continue during the next financial year with emphasis on completion of structural works, architectural finishing, installation of allied services, procurement of equipment, and execution of external development works in accordance with the approved implementation schedule, extended gestation period, revised PC-1 and release of funds by the sponsoring agency.

7.3.2 STRENGTHENING OF MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE, MULTAN.

PROJECT OVERVIEW:

The project titled "Strengthening of Muhammad Nawaz Shareef University of Agriculture, Multan" was approved by the sponsoring agency, Agriculture Department, Govt. of the Punjab on 08.12.2022 at a total cost of Rs. 646.600 million with an initial gestation period of 36 months under ADP. Subsequently, the gestation period was extended on 21.09.2025 up to 30.06.2026 without any change in the approved project cost and scope. The project aims to improve higher education opportunities in Southern Punjab, support students' health and extracurricular indoor sports activities, provide safe and comfortable accommodation for female students, and strengthen the University's campus infrastructure.

SCOPE OF WORK

The approved scope of the project includes Construction of a Female Hostel, Indoor Sports Gymnasium, Overhead Water Reservoir with a 1.5 cusec turbine, ICT Equipment and Networking, Student Buses and Furniture Fixtures.

PROJECT PROGRESS

The cumulative funds released under the scheme up to preceding financial year were Rs. 411.049 million. During the CFY (2025-26), funds amounting Rs. 151.751 million were released and utilized fully. Civil work activities remained in progress throughout the reporting year. The major civil infrastructure comprising the Female Hostel, Sports Gymnasium, and Overhead Water Reservoir has been substantially completed and partially handed over to the University. The revenue component items comprising ICT equipment and Furniture & Fixture have been procured. Certain ancillary and balance works are under execution at the close of the reporting period and will be completed in accordance with the approved contractual and administrative procedures.

7.3.3 NATIONAL CROP GENOMICS AND SPEED BREEDING CENTER FOR AGRICULTURE SUSTAINABILITY.

PROJECT OVERVIEW:

The project titled "National Crop Genomics and Speed Breeding Center for Agriculture Sustainability at Muhammad Nawaz Shareef University of Agriculture, Multan" was originally approved by the sponsoring agency, Agriculture Department, Govt. of the Punjab on 25.10.2021 at a cost of Rs. 450.000 million with a gestation period of 36 months under ADP. During implementation, the project underwent three revisions. The project cost was enhanced to Rs. 689.197 million through 3rd revision on 30.12.2025 with extended gestation period up to 30.06.2026.

SCOPE OF WORK

The approved scope of the project includes construction of National Crop Genomics Center building along with related components comprising big data analytics, laboratory equipment, chemicals, research materials and furniture and fixtures.

PROJECT PROGRESS

The cumulative funds released under the scheme up to preceding financial year were Rs. 440.487 million. During the CFY (2025-26), funds amounting Rs. 223.531 million were released and utilized fully. Civil work activities remained in progress throughout the reporting year and building has been partially handed over by the contractor and students' activities are in progress at the center. The revenue component items comprising big data analytics, laboratory equipment, chemicals, research materials and furniture and fixtures have been procured while lab items procurement through LC is in process. While the major project components have been completed and are functional. Certain ancillary and balance works are under execution at the close of the reporting period and will be completed as per approved contractual and administrative procedures.

7.4 COMPLETED DEVELOPMENT PROJECTS

The University has successfully completed four development projects since its inception till date that have significantly strengthened its academic, research and support infrastructure. These projects have enhanced the University's capacity to provide quality education, promote research and innovation, and improve facilities for students, faculty, and stakeholders. The Directorate of Planning & Development gratefully acknowledges the continued support and guidance of all stakeholders whose cooperation and commitment significantly contributed to the implementation of the University's development program during the reporting year

7.4.1 ESTABLISHMENT OF MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE, MULTAN (PHASE-II)

The project "Establishment of Muhammad Nawaz Shareef University of Agriculture, Multan (Phase-II)"

was approved by the sponsoring agency, Agriculture Department, Govt. of the Punjab on 29.10.2015 at an initial cost of Rs. 1,510.243 million with an execution period of 48 months under ADP. Owing to funding constraints, the project was subsequently revised to Rs. 1,746.258 million on 07.01.2020, and the gestation period was extended up to 30.06.2020. The project has since been successfully completed and serves as the anchor facility of the University's main campus. The approved scope of the project included construction and development of the University's core infrastructure comprising Academic Block, Administration Block, Boys Hostel, Girls Hostel, Faculty Hostel, Residential Accommodation, Boundary Wall, Internal Roads, Water Supply and Sewerage System, Overhead Reservoir, Laboratory Equipment, ICT Equipment, Furniture and Fixtures and Farm Development Infrastructure.

The project laid the foundation for the University's academic and administrative operations by providing modern teaching facilities, student accommodation, faculty residences, laboratories, and essential campus and university farms infrastructure. The project has played a pivotal role in supporting the University's academic growth and research activities since its establishment.

7.4.2 PROVISION OF FRESH IRRIGATION WATER AND OTHER BASIC INFRASTRUCTURE FACILITIES AT JALALPUR PIRWALA (JPPW) FARM

This project was approved by the sponsoring agency, Agriculture Department, Govt. of the Punjab on 20.09.2019 at a cost of Rs. 170.000 million with an execution period of 24 months under ADP. The project strengthened the University's experimental farm at Jalalpur Pirwala through the provision of reliable irrigation water and supporting infrastructure essential for agricultural research and extension activities. The approved scope of the project included construction of underground irrigation pipeline network, animal sheds, machinery and implement sheds, input stores, farmers' training hall, Installation of two turbine tube wells, boundary wall and allied infrastructure and furniture and fixture.

The project successfully established a dependable irrigation system through the installation of tube wells and approximately nine kilo meters of underground pipeline. Essential farm buildings and training facilities were also completed to support research, demonstration, and capacity-building activities. The completed project has substantially improved irrigation facilities at the University's research farm, enabling sustainable cultivation and strengthening research in crop production. The infrastructure also supports practical training for students, applied research by faculty, and outreach programs for farming communities.

7.4.3 CONSTRUCTION OF SARDAR TANVEER ILYAS LIBRARY AT MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE MULTAN.

This project was approved by the Campus Construction Committee on 26.06.2018 at a cost of Rs. 30.00 million with the time limit up to 20.01.2020. The construction of the Library was made possible

through the generous financial contribution of a philanthropist and was named in his honor in recognition of his invaluable support. The project resulted in the establishment of the ground floor of the University's main Library, providing a modern academic resource center for students, faculty, and researchers. The approved scope of the project included construction of the library building, development of reading and study areas, library furniture, digital library facilities, and enhancement of electronic information services.

The University has established a modern Central Library as its primary learning resource center, equipped with reading spaces, books, journals, digital resources, and access to electronic databases, including the HEC Digital Library. The Library strengthened information access through online services, remote access to electronic resources, and an integrated library management system. It also introduced electronic library publications, organized annual book fairs, and continued to support teaching, learning, and research by providing a modern academic information environment.

7.4.4 CONSTRUCTION OF FATIMA-TU-ZAHRA MASJID AT MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE MULTAN.

The project titled "Construction of Fatima-Tu-Zahra Masjid" was approved by the Campus Construction Committee on 19.04.2022 at a cost of Rs. 93.00 million, with an execution period of 24 months. Subsequently, the project was further revised by the Campus Construction Committee on 28.11.2023, increasing the approved cost to Rs. 116.710 million. The project provides a central place of worship for students, faculty, employees, and visitors. The project was financed through University resources and generous public donations and has been successfully completed as per plan. The approved scope of project included, Main Prayer Hall, Veranda, Library, Ablution Areas, Ancillary Rooms and External Development Works.

The project successfully completed all structural, architectural, and finishing works, resulting in a fully functional mosque equipped with prayer, ablution, and library facilities. The mosque provides a peaceful and spiritually enriching environment for the University community. In addition to facilitating congregational prayers, it serves as a center for religious learning, community interaction, and the promotion of ethical and moral values among students and staff.

7.5 DEVELOPMENT PLANNING AND PROJECT FORMULATION

In addition to implementing and monitoring ongoing development projects, the Directorate of Planning & Development remained actively engaged in strategic planning and project formulation to address the University's emerging academic, research, and infrastructure requirements.

During FY 2025–26, the Directorate prepared following PC-1 in consultation with the University Administration, academic departments, and relevant stakeholders. and submitted to the Agriculture Department, Government of the Punjab, Lahore, for consideration under the Annual Development Programme (2026-27)

- Establishment of a Research, Skill Development and Outreach Centre at Khanewal of Rs. 1,260.904 million
- Establishment of Maryam Nawaz Exhibition Centre at MNS University of Agriculture, Multan of Rs. 780.000 million

Although the proposals fulfilled the prescribed planning requirements, they could not be accommodated in the ADP 2026–27 due to limited provincial development resources and competing sectoral priorities. The University will continue to pursue these strategically important development initiatives and actively coordinate with the Agriculture Department and other relevant government agencies to secure their inclusion in future Annual Development Programs.

7.6 CHALLENGES AND WAY FORWARD

During FY 2025–26, the implementation of development projects progressed satisfactorily despite a number of challenges. These included revisions in project scope, extensions in implementation timelines, fluctuations in construction material prices, and various administrative and procedural requirements associated with public sector development projects. Nevertheless, through effective planning, regular monitoring, and close coordination with consultants, contractors, funding agencies, and user departments, the Directorate ensured continuity of project activities and maintained steady implementation progress.

In the forthcoming financial year, the Directorate will continue to prioritize the timely completion of ongoing development projects and ensure their formal completion in accordance with approved contractual and administrative requirements. Particular emphasis will be placed on the procurement and installation of the remaining laboratory, ICT, furniture, and allied equipment, completion of external development and landscaping works, and further strengthening of project monitoring and quality assurance mechanisms. It will also continue to identify future infrastructure requirements and prepare development proposals aligned with the University's Strategic Plan. Efforts will remain focused on securing financial support from the Higher Education Commission (HEC), the Agriculture Department, Government of the Punjab, and other potential funding agencies to facilitate the implementation of strategically important development initiatives.

STRENGTHENING OF TECHNOLOGICAL INFRASTRUCTURE



Chapter 8

STRENGTHENING OF TECHNOLOGICAL INFRASTRUCTURE





CHAPTER 08

STRENGTHENING OF TECHNOLOGICAL INFRASTRUCTURE

The Directorate of Information Technology (DIT) is committed to developing a secure, smart, and resilient IT infrastructure that ensures uninterrupted access to digital services across the university. DIT ensures a reliable, secure, and efficient IT environment where optimized institutional outcomes are achieved. The Directorate of IT plays a pivotal role in realizing the vision and mission of MNS-University of Agriculture, Multan, by continuously expanding ICT infrastructure and digital software services.

- ICT Hardware Infrastructure
- ICT Software Services

8.1 ICT HARDWARE INFRASTRUCTURE

8.1.1 CISCO SG350 SERIES SWITCHING SETUP

The Directorate of IT deployed Cisco SG350 Series next-generation managed switches, offering advanced performance, ease of use, and rich operational features. With full support for Layer 2 and Layer 3 operations, advanced security, dynamic routing, and energy-saving technology, they deliver a robust foundation for modern enterprise applications. The core network was upgraded using Cisco Catalyst 2960-X series switches to ensure enterprise-grade switching, high-performance routing, and advanced network security.

8.1.2 CISCO 3504 WLC SETUP

A centralized Cisco Wireless LAN Controller (WLC) 3504 was deployed across the campus network. This controller provides secure, high-density, centralized wireless management and seamless campus-wide connectivity.

8.1.3 NETWORK SECURITY SETUP (FORTIGATE-200E)

A FortiGate-200E Next-Generation Firewall (NGFW) was deployed to safeguard institutional infrastructure. Powered by dedicated security processors, it delivers threat protection, deep traffic visibility, application control, and optimized bandwidth performance.

8.1.4 IP UNIFIED COMMUNICATION (PANASONIC KX-NSX2000)

Panasonic VoIP exchange hardware was integrated using Session Initiation Protocol (SIP) to streamline voice communications. Over 150 IP/VoIP phone extensions have been provisioned across various faculties, administrative directorates, and operational units.

8.1.5 SECURITY AND SURVEILLANCE INFRASTRUCTURE

Over 200 PoE-enabled IP surveillance cameras operate across key campus locations. A centralized monitoring control room manages real-time feeds, video archives, and rapid incident response.

8.1.6 COMPUTING LABORATORIES

Four high-tech computer laboratories are established within the academic blocks, featuring modern GPU-accelerated desktops and pre-configured academic toolkits. Dedicated high-performance computing (HPC) nodes provide secure, high-speed computational resources for advanced faculty and student research.

8.1.7 FIBER OPTIC CAMPUS BACKBONE

All academic, administrative, and hostel buildings are interconnected via a redundant high-speed fiber optic backbone network.

8.1.8 VIDEO CONFERENCE FACILITIES

Five dedicated video conference suites support academic and administrative workflows, with an executive suite designated for international collaborations and high-level meetings. Each facility features smart LED displays, multimedia projection, dedicated sound engineering, and enterprise network links.

8.1.9 SMART & MULTIMEDIA CLASSROOMS

Over 60 interactive multimedia projectors and audio setups are installed across campus lecture halls to deliver modern digital pedagogical experiences.

8.1.10 HIGH-DEFINITION TELECONFERENCING SOLUTIONS

Enterprise video conferencing hardware delivers high-fidelity audio/visual processing for national and international symposiums, research defenses, and administrative boards.

8.1.11 DIGITAL OUTDOOR INFORMATION DISPLAYS (SMDS)

High-resolution outdoor SMD digital displays installed across strategic campus intersections provide real-time broadcasts of institutional notices, academic calendars, and university events.

8.2 ICT SOFTWARE SERVICES & AUTOMATION

8.2.1 ENTERPRISE COLLABORATION PLATFORMS

The Directorate provides managed enterprise solutions through Microsoft Teams, Cisco WebEx, and Zoom to facilitate virtual academic defenses, administrative meetings, and global research webinars.

8.2.2 HIGH-SPEED INTERNET CONNECTIVITY (PERN & REDUNDANT LINKS)

- PERN Subscription Upgrade: The university's Pakistan Education & Research Network (PERN) connection was enhanced from P1 to P2, boosting academic bandwidth from 200 Mbps to 300 Mbps, bundled with Microsoft 365 and Windows enterprise licensing.
- Secondary ISP Backup: A secondary dedicated fiber optic link via Wateen Telecom was scaled from 150 Mbps to 225 Mbps to ensure failover redundancy and uninterrupted uptime.
- **Total ISP Speed = 300 + 225 = 525**

8.2.3 WEB PORTALS & INSTITUTIONAL CMS

DIT oversees official web properties, having transitioned core content management to a secure, open-source Joomla enterprise framework, while hosting modular sub-portals for university projects.

8.2.4 CYBERSECURITY, ENDPOINT SECURITY & ACCESS CONTROL

Endpoint Security Cloud Plus is deployed across all institutional endpoints for proactive protection against malware, ransomware, and zero-day vulnerabilities. The FortiGate-200E framework enforces granular, role-based access control and policy-driven traffic filtering.

8.2.5 LEARNING MANAGEMENT SYSTEMS (LMS)

Under the HEC Higher Education Development Program (HEDP), Blackboard LMS serves as the primary centralized platform for course administration, digital assignments, assessment rubrics, and academic analytics.

8.2.6 MNSUAM TESTING SERVICE (MTS PORTAL)

The Directorate manages and supports the official MNSUAM Testing Service platform (https://mts.mnsuam.edu.pk/), an in-house digital assessment portal engineered for institutional admission tests, departmental entrance screenings, recruitment examinations, and university-wide evaluations.

8.2.7 DECENTRALIZED BIOMETRIC ATTENDANCE MANAGEMENT SYSTEM

The university's biometric hardware and firmware infrastructure was upgraded for enhanced logging precision. DIT is actively deploying a decentralized departmental attendance portal. This architecture provides individual departments, faculties, and administrative sections direct, role-based access to monitor and generate their own staff attendance reports independently, while DIT maintains centralized database integrity, system security, and administrative support.

8.2.8 GOOGLE WORKSPACE FOR EDUCATION SERVICES

Faculty, staff, and students receive enterprise Google Workspace accounts—encompassing institutional email, shared cloud storage, and integrated productivity suites—managed centrally by DIT.

8.2.9 ENTERPRISE RESOURCE PLANNING (ERP) & IN-HOUSE DIGITAL SYSTEMS

MNS-University of Agriculture, Multan has developed and implemented a range of enterprise-level digital platforms and in-house information systems to streamline academic, administrative, financial, human resource, and student services. Key systems include:

- **Learning Management System (LMS):** https://lms.mnsuam.edu.pk: A centralized platform for online teaching, learning, course management, assessment, and academic activities.
- **University Timetable Management System:** https://timetable.mnsuam.edu.pk:8444/: A centralized system for efficient scheduling and management of academic timetables.
- **SAP Higher Education System:** Implemented under the **HEC Higher Education Development in Pakistan (HEDP) Project**, the SAP Higher Education System supports end-to-end digitalization of key university operations, including:
  - Student Lifecycle Management and Academics
  - Human Capital Management (HCM)
  - Student Lifecycle – Finance
  - Financial Accounting and Controlling (FICO)
  - Enterprise Asset Management (EAM)
  - Supply Chain Management (SCM)
  - University Administration and related institutional processes
- **Central Admission Portal:** http://admission.mnsuam.edu.pk: A centralized digital platform for managing and facilitating the university's admission process.
- **Faculty Information System (FIS):** https://fis.mnsuam.net/: A dedicated system for maintaining and managing faculty-related information and academic records.
- **Agricultural Sciences Journal (ASJ) Management System:** https://asj.mnsuam.net/: A digital platform supporting the submission, review, management, and publication workflow of the Agricultural Sciences Journal.
- **Centralized Complaint Management Portal:** https://complaints.mnsuam.edu.pk/ A centralized platform for registering, tracking, and managing complaints and service-related requests.
- **University Job Portal:** https://eportal.mnsuam.edu.pk/ An online recruitment platform for managing job advertisements, applications, and related recruitment processes.
- **Agri-Internship Mobile Application:** https://agri-internship.mnsuam.edu.pk: A digital platform designed to facilitate and manage agricultural internship opportunities, placements, and related activities.
- **Smart Card Management System:** http://card.mnsuam.edu.pk: A centralized system for managing university smart cards and associated student and institutional services.

8.2.10 BIOMETRIC ATTENDANCE SYSTEM UPDATED

The Directorate of IT successfully updated the university's Biometric Attendance System to ensure enhanced reliability and performance through firmware upgradation and installing new machines. This upgrade supports accurate attendance tracking and strengthens access control mechanisms.

8.2.11 VIRTUALIZATION & CLOUD INFRASTRUCTURE

High-availability virtualized environments and Microsoft Azure Cloud instances are provisioned to run institutional workloads, including:

- Virtual Machine for ERP Software.
- Microsoft Azure Cloud services
- Pay Roll Virtual Machine
- Dynamics Virtual Machine
- Library Management System (KOHA)

UNIVERSITIES BUILDING COMMUNITIES

Muhammad Nawaz Shareef
University of Agriculture
Multan



Chapter 9

Universities Building Communities





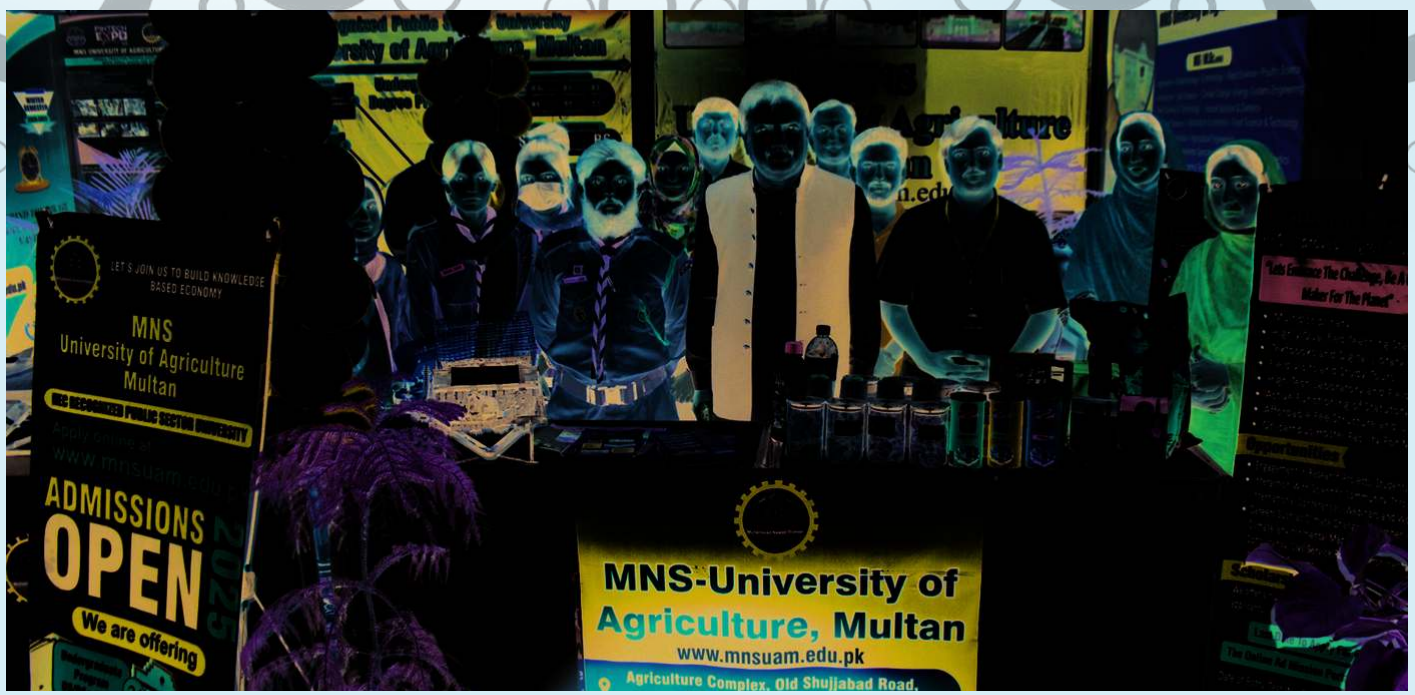






Chapter 9

Universities Building Communities









CHAPTER 09

UNIVERSITIES BUILDING COMMUNITIES

9.1 COMMUNITY CENTRIC EVENTS AND ACTIVITIES

Sports Activities	Date	Nature of Event	Beneficiaries
9th Annual Mango Festival at The Centaurus Mall, Islamabad	07/07/2025	Agro-Tourism Exhibition	Mango Growers, Exporters, and General Public
MNSUAM Participation in 3rd National Mango Festival	18/07/2025	Value-Added Agro Display	Health-Conscious Visitors and Local Families
Workshop on Plantation and Climate Change at Nishtar Medical University	21/07/2025	Environmental Seminar	Medical Students and Faculty Members
5th Mango Festival at DeSOM Mall, Lahore	25/07/2025	Urban Marketing Outreach	Mango Farmers, Traders, and Local Communities
1st Mango Festival at Gold Crest Mall, Lahore	25/07/2025	Agro-Business Platform	Mango Growers, Consumers, and General Public
Dialogue on Post-2022 Flood Scenario, Insights, Possibilities, and Future Preparedness	31/07/2025	Provincial Resilience Dialogue	Civil Society, Social Welfare Groups, and Farmers
9th Mango Festival at MNSUAM Campus	02/08/2025	Agri-Exhibition & Culture Event	Mango Growers, Scientists, and Local Community
International Webinar on Citizen Science for Pollinators and IPM Success in Cotton	07/08/2025	Digital Agri-Extension Webinar	Cotton Growers, Faculty, and Students
Seminar on GMO Crops: Innovations and Impacts	23/08/2025	Biotechnology Awareness Session	Policymakers, Farmers, Industry, and Scientists

Technical Seminar on Lucerne Grass Cultivation and Fodder	04/09/2025	Agri-Extension Training	Dairy Farmers and Fodder Growers
Workshop on Ornamental Plant Nursery Management	18/09/2025	Skill Development Session	Rural Youth and Local Nursery Owners
Local Industry Linkage Meeting on Cotton Ginning Standards	02/10/2025	Industrial Linkage Roundtable	Ginning Mill Owners and Progressive Farmers
Strategic Policy Session on Sustainable Land Use Planning	15/10/2025	Regional Governance Session	District Agricultural Officers and Town Planners
Workshop on Locally Led Flood Recovery: Demand for Grants, Not Loans	03/11/2025	Post-Disaster Consultation	Flood Victims in Jalalpur Pirwala and Alipur
Smog Awareness Seminar and Public Walk	04/11/2025	Environmental Health Drive	Civil Society, Students, Faculty, and Industry
Special Session: Standard Packaging and Branding Techniques for Horticultural Products	12/11/2025	Value-Chain Export Training	Farmers and Young Business Professionals
Launch of "Grow More Wheat" Awareness Campaign	13/11/2025	High-Yield Production Campaign	Punjab Wheat Farmers and Rural Communities
Seminar on People, Nature, and Harmony: Pakistan's Biosphere Reserves in Focus	Mid-Nov 2025	Ecological Conservation Seminar	Small-scale Farmers and Indigenous Communities
Seminar on Developing Emotional Intelligence for Personal and Academic Success	03/12/2025	Psychological Well-being Session	University Hostel Boarders and Campus Students
World Soil Day Celebrations (Healthy Soils, Healthy Cities)	05/12/2025	Soil Health Awareness Drive	Urban Citizens, Farmers, and Researchers
Seminar on Cyberspace and Extremism: Building a Resilient Pakistan	12/12/2025	Cyber Security Awareness	University Youth and Academic Societies

Punjab Chief Minister Laptop Scheme Distribution Ceremony	19/12/2025	Digital Lite racy Support Initiative	Deserving Male and Female University Students
Youth-Led Actions (YLA) Leadership & Climate Program	Dec-Jan 2025	Civic Action & WASH Training	Postgraduate Youth across Training Batches
Annual Sports Gala 2025–26 Inauguration	31/12/2025	Campus Athletic Championship	University Students, Faculty, and Administrators
Public Camp: Embrace Wellness & Weight Management	07/01/2026	Public Health Evaluation Drive	University Students and Campus Community
Hands-On Workshop on Climate and Crop Growth Modeling (DSSAT)	07/01/2026	Climate-Smart Agriculture Training	Faculty Members, Researchers, and Students
National Seminar on Pulses Production Technology for Food Security	15/01/2026	Crop Diversification Seminar	Smallholders and Pulse Crop Growers
Hands-on Training on Kitchen Gardening for Rural Women	22/01/2026	Women Empowerment Session	Rural Housewives and Local Communities
Specialized Training on Value Addition of Citrus Fruits	04/02/2026	Food Processing Workshop	Citrus Orchard Staff and Small Entrepreneurs
AFS Venture Spark 2026 (6th Edition National Forum)	12/02/2026	Innovation & Startup Exhibition	Student Innovators, Banking, and Seed Sectors
Seminar on Counter Narcotics Awareness	18/02/2026	Preventive Substance Abuse Session	University Youth and Campus Community
Training Workshop on Honeybee Management and Extraction	25/02/2026	Apiculture Skill Development	Local Beekeepers and Rural Entrepreneurs
Launch of Provincial Early Cotton Cultivation Campaign	07/03/2026	Strategic Climate Adaptation Campaign	South Punjab Farmers and Cotton Growers

Farmer Convention on Cotton Production	07/03/2026	Agricultural Knowledge Transfer	Farmers and Agricultural Fertilizer Stakeholders
Field Evaluation of Integrated Partial Automatic Potato Digger	09/03/2026	Mechanization Field Demonstration	Potato Growers and Local Machinery Manufacturers
School Teachers Learning Visit to Hydroponics Unit	17/03/2026	Soil-free Agri Outreach Session	School Educators and Local Young Learners
Expert Session on Drone Technology in Agriculture	18/03/2026	Precision Smart Farming Workshop	Farmers, Extension Workers, and Faculty
Seminar on Water and Industrial Equity: Where Water Flows, Equality Grows	26/03/2026	World Water Day Awareness Event	Smallholder Farmers and Women in Agriculture
Hands-On Training on Plant Breeders' Rights Procedures	01/04/2026	Academic Property Right Training	Plant Breeders, Seed Sector, and Researchers
Workshop on Regenerative Agriculture and Sustainable Practices	05/04/2026	Domestic Waste Management	Cantonment Board Workers and Civil Society
Awareness Walk on World Health Day Promotes Healthy Living	07/04/2026	Public Health Awareness Drive	University Students, Faculty, and Staff
Consultative Workshop on Private Sector Research Partnership	09/04/2026	Smallholder Market Linkage Forum	Smallholder Farmers and Agri-Business Companies
Educational Visit by Bloomfield School Students to MNSUAM	09/04/2026	Early Career Agriculture Tour	Pre-O Level School Students
Field Visit and Regional Agriculture Forum at Rajanpur Substation	13/04/2026	Resource Planning Field Workshop	Local Progressive Farmers and Research Staff
21st Scientific Writing Certificate Training	15/04/2026	Postgraduate Capacity Building	Enrolled MS and PhD Research Scholars

Innovative Juice Making Competition	16/04/2026	Student Entrepreneurship Exercise	Home Sciences and Food Science Students
Training Workshop on Regenerative Agriculture and Vermicomposting	17/04/2026	Practical Low-Cost Farming Session	Farmers from Bahawalpur and Dera Ghazi Khan
Educational Visit to Pesticide Quality Control Laboratory, Multan	19/04/2026	Experiential Quality Standards Tour	BSc (Hons) Agriculture Undergraduate Students
International Mother Earth Day Awareness Celebrations	22/04/2026	Green Stewardship Action Campaign	Local Community Members and Campus Youth
Capacity Workshop on Composting and Low-Carbon Agriculture	25/04/2026	Biosphere Buffer-Zone Training	Small Farmers from Lal Sohanra Buffer Zone
Seminar on Environmental Awareness and Tree Importance	26/04/2026	Deforestation Mitigation Seminar	University Students and Local Communities
Training of Trainers Session on Water Conservation (PHEC Cluster)	27/04/2026	Civic Responsibility Workshop	Multan School or College Instructors and Youth
Medical Seminar on Joint Diseases Raises Health Awareness	28/04/2026	Public Disease Prevention Lecture	University Staff, Faculty, and Students
Awareness Seminar on Vaccines for Every Generation	29/04/2026	World Immunization Week Drive	Local Families and Missed-Dose Children
Specialized Workshop on Soil Testing and Fertilizer Selection	06/05/2026	Technical Soil Extension	Small Scale Fertilizer Distributors
Field Session on Post-Harvest Handling of Vegetables	12/05/2026	Supply-Chain Training	Local Vegetable Growers and Market Traders
International Day of Plant Health Public Awareness Walk	14/05/2026	Public Crop Protection Campaign	Farming Communities and Next-Gen Scientists

World Migratory Bird Day Awareness Seminar and Planting	15/05/2026	Regional Biodiversity Drive	Wildlife Officers, Teachers, and Civil Society
Interactive Training on Direct Seeding of Rice (DSR Methods)	22/05/2026	Water-Saving Agri Extension	Progressive Rice Growers and Rural Farmers
Awareness Seminar on Dairy Herd Health Management	25/05/2026	Experiential Quality Standards Tour	BSc (Hons) Agriculture Undergraduate Students
International Mother Earth Day Awareness Celebrations	28/05/2026	Livestock Management Session	Local Dairy Farmers and Livestock Staff
World Environment Day 2026 Practical Forum	05/06/2026	Waste Management Green Campaign	Local Area Citizens, Students, and Faculty
3-Day Technical Training Workshop on Urban Forestry	08/06/2026	Green Infrastructure Technical Session	Civil Society Members and Municipal Staff
Technical Field Training on Tunnel Farming Alternatives	12/06/2026	High-Efficiency Agriculture	Local Vegetable Farmers and Growers
Anti-Drug Awareness Seminar and Campaign Walk	19/06/2026	Regional Prevention Campaign	Youth, Parents, and Regional Community
Workshop on Integrated Weed Management in Summer Crops	24/06/2026	Crop Protection Extension	Smallholders and Farm Labor Managers
Certificate Distribution for University Community Interns	28/06/2026	Youth Empowerment Ceremony	Graduate Interns and Rural Mobilizers

9.2 DESCRIPTIVE DETAILS OF OUTREACH ACTIVITIES

9TH ANNUAL MANGO FESTIVAL AT THE CENTAURUS MALL, ISLAMABAD

Muhammad Nawaz Shareef University of Agriculture, Multan, in collaboration with the Mango Research Institute Multan, proudly organized the 9th Annual Mango Festival at The Centaurus Mall,

Islamabad, from July 7 to 13, 2025. The event, held under the operational theme of "Agro Tourism," successfully brought together mango growers, government officials, exporters, researchers, industry professionals, and urban consumers to strengthen the nexus between sustainable agriculture and international tourism. The festival featured over 100 varieties of premium quality mangoes, showcasing well-loved traditional cultivars such as Sindhri, Langra, Chaunsa, Dussehri, and Anwar Ratol, alongside exotic types like Neelum Begum, Sensation, and Tota Pari. Key commercial discussions during the week highlighted that Pakistan produces 1.79 million tons of mangoes annually, with only 6% currently exported and a significant 20–40% lost post-harvest, thereby underscoring the critical national need for modern cold-chain logistics, improved agronomic practices, and integrated pest management systems to enhance export potential. Under the visionary direction of the Vice Chancellor, the university delegation assumed a pivotal role in festival execution by providing field technical expertise on regional mango varieties, advanced post-harvest technologies, and sustainable cultivation practices, cementing MNSUAM's role as a leading thought leader in Pakistan's horticultural landscape.

MNSUAM PARTICIPATION IN 3RD NATIONAL MANGO FESTIVAL

Muhammad Nawaz Shareef University of Agriculture, Multan actively participated in the prestigious 3rd National Mango Festival organized by DHA Bahawalpur from July 18 to July 20, 2025, which successfully brought together leading mango producers, agricultural innovators, and research institutions from across the region. The university's specialized stall showcased premium quality fresh mangoes alongside a diverse range of value-added agricultural products and research-based technologies. The university display opened with a vibrant exhibition of dry-packaged fruits including mango, banana, strawberry, and apple, which were highly appreciated by public visitors for their natural flavor retention, attractive packaging, and long shelf stability. Furthermore, a specialized date-based product line, comprising date sugar, date candies, date seed powder, date peat, and date coffee, received significant attention from health-conscious visitors and families, while functional wellness foods like moringa powder, quinoa packs, and gluten-free flour were in high demand due to increased public awareness regarding nutritional wellness and alternative dietary strategies.

WORKSHOP ON PLANTATION AND CLIMATE CHANGE AT NISHTAR MEDICAL UNIVERSITY

The Department of Climate Change at Muhammad Nawaz Shareef University of Agriculture, Multan, in collaboration with the Green Youth Movement, Plant for Life Society, and local partner organizations, organized a comprehensive Workshop on Plantation and Climate Change at Nishtar Medical University Multan on July 21, 2025. The workshop aimed to highlight the role of strategic tree plantation in mitigating climate change, restoring degraded urban land, and promoting sustainable environmental practices across South Punjab. Associate Professor of Climate Change briefed the large gathering of medical students and faculty members on the core causes of climate change, the resulting public health damages, and practical measures to mitigate these impacts in the modern era. He stated that climate change is reducing the average human lifespan by 1.9% primarily

due to air pollution, and highlighted that in Pakistan, the average life expectancy of each individual is decreasing by approximately 2.7 years. He further highlighted that forest cover in Pakistan is currently less than 5%, which needs to be increased urgently since there are only 3 to 4 trees per person in Pakistan, which is significantly lower compared to international standards such as Canada and Australia, meaning that the youth must play a key role in planting and maintaining trees.

5TH MANGO FESTIVAL AT DESOM MALL, LAHORE

Muhammad Nawaz Shareef University of Agriculture, Multan, Gold Crest Mall, and DeSOM Mall, Lahore jointly organized a high-profile Mango Festival from July 25 to 27, 2025, in collaboration with progressive mango growers, textile industrialists, and regional stakeholders. The festival aimed to highlight the extensive diversity of Pakistani mango varieties, explore urban business opportunities, promote value addition in the horticultural sector, and firmly establish Multan as the definitive "Mango Capital" of Pakistan. The Vice Chancellor of MNSUAM along with the Director General of Rangers, Punjab formally inaugurated the 5th Mango Festival at DeSOM Mall, Lahore on July 25, 2025, providing a business-friendly platform to support smallholder mango farmers by giving them direct access to premium metropolitan consumer markets.

1ST MANGO FESTIVAL AT GOLD CREST MALL, LAHORE

Running concurrently with the Lahore retail outreach campaign, former members of the Punjab Provincial Assembly inaugurated the 1st Mango Festival at Gold Crest Mall, Lahore on July 25, 2025. The distinguished guests highly commended the agricultural university's efforts in organizing the festival, which saw active participation from diverse stakeholders, including political leaders, academics, researchers, government officials, industrialists, farmers, traders, and exporters. Through this venue, regional farmers gained direct access to premium markets, securing significant immediate cash sales at higher profit margins through value-added mango products and receiving sustainable online orders for future transactions. Open to local communities and families, the exhibition featured over 60 distinct mango varieties displayed across 20 specialized stalls, where visitors were amazed by the vast diversity in shapes, colors, and flavors of mangoes.

DIALOGUE ON POST-2022 FLOOD SCENARIO, INSIGHTS, POSSIBILITIES, AND FUTURE PREPAREDNESS

A vital provincial dialogue was held at Muhammad Nawaz Sharif University of Agriculture, Multan on July 31, 2025, under the joint organization of MetaMeta Research Netherlands, Doaba Foundation, and the MNSUAM Department of Agronomy. The event, titled "Post-2022 Flood Scenario, Insights, Possibilities, and Future Preparedness," brought together social welfare groups, civil society, and researchers to discuss sustainable methods for preventing severe flood damage from hill torrents, improving crop and livestock resilience, and making better use of water and land. Technical experts emphasized investment in research-based development for hill-torrent-affected areas, while the Dean of the Faculty of Agriculture and Environmental Sciences underscored that seasonal floodwater is highly valuable and beneficial for agriculture. He stressed that if citizens create an

extra borehole at their residential homes, surplus rainwater can safely seep underground, thereby effectively increasing groundwater levels and enabling better utilization of floodwater.

9TH MANGO FESTIVAL AT MNSUAM CAMPUS

The main Mango Festival 2025, hosted directly by Muhammad Nawaz Shareef University of Agriculture Multan on August 2, 2025, was inaugurated in a grand ceremony by the Chairperson of the National Seed Development and Regulatory Authority, along with the Vice Chancellor of MNSUAM. The festival highlighted various operational aspects of mango cultivation, scientific research, production, value addition, marketing, and export. Speaking at the opening ceremony, the university leadership highlighted that the university is working to promote scientific research, hands-on training, and modern technologies for the development of the mango sector, with ongoing trials regarding the impact of climate change on mango, nursery management, pest control, and yield improvement. He shared that the university's Mango Small Tree System has become highly popular among farmers as it allows higher and better-quality production in less space, while the digital Smart Trap System helps identify pests in time and the Protein Bait System has proven highly effective in managing mango fruit flies without chemical overuse.

INTERNATIONAL WEBINAR ON CITIZEN SCIENCE FOR POLLINATORS AND IPM SUCCESS IN COTTON

The Institute of Plant Protection at Muhammad Nawaz Shareef University of Agriculture, Multan organized a high-level international webinar on August 7, 2025, featuring distinguished agricultural experts from the University of Georgia, USA, and MNSUAM. The webinar explored the role of Citizen Science in pollinator conservation and shared the success story of introducing Integrated Pest Management (IPM) practices to cotton growers in Punjab. Experts highlighted that citizen science is a highly effective, low-cost approach to pollinator protection that enables the collection of quality community-based data that can be directly used in research and policymaking through easy-to-follow observation protocols for schools, community groups, and farmer organizations. The presentation on the IPM program for cotton in Punjab focused on training farmers about Economic Threshold Levels, protecting natural insect enemies, using pheromone and sticky traps for field monitoring, and applying pesticides wisely by delaying the first spray by 90 days to maintain regional ecological balance.

SEMINAR ON GMO CROPS: INNOVATIONS AND IMPACTS

A one-day technical seminar on the topic of "Genetically Modified (GM) Crops: Innovations and Impacts" was organized at MNSUAM on August 23, 2025, featuring senior managers of agribusiness as guest speakers. Addressing the seminar, the Director of the Institute of Plant Breeding and Biotechnology emphasized that Pakistan cannot afford to lag behind in adopting new biotechnologies to secure its agricultural future. Experts elaborated that GM technology is being used widely across the world to help control pest attacks and reduce field pesticide use by up to 70%, which directly benefits local smallholders by lowering input costs and increasing raw yield. The

university leadership highlighted that while GM crops hold an essential place globally for Pakistan's agricultural progress, the adoption of this technology requires thorough precautionary measures, regulatory frameworks, and proper implementation across all stakeholders, including policymakers, farmers, industry representatives, and scientists.

TECHNICAL SEMINAR ON LUCERNE GRASS CULTIVATION AND FODDER

The Department of Agronomy organized a technical extension seminar on September 4, 2025, dedicated to exploring high-yield fodder alternatives for livestock. The session brought together local dairy farmers and progressive growers to review the package of practices required for optimized Lucerne cultivation under localized South Punjab soil environments. Agronomists detailed irrigation scheduling and multi-cut harvesting methods designed to secure consistent green fodder supplies during peak winter lean periods, directly enhancing milk production efficiencies.

WORKSHOP ON ORNAMENTAL PLANT NURSERY MANAGEMENT

A hands-on vocational training workshop on Ornamental Plant Nursery Management was executed on September 18, 2025, under the auspices of the Department of Horticulture. The training program targeted rural youth and local nursery owners, teaching them advanced techniques in substrate preparation, chemical-free sterilization, and the propagation of high-value ornamental species. Participants were provided with practical demonstrations on modern grafting and air-layering methods to help them set up self-sustaining commercial nurseries.

LOCAL INDUSTRY LINKAGE MEETING ON COTTON GINNING STANDARDS

The Office of Research, Innovation, and Commercialization (ORIC) convened a strategic industry-academia linkage meeting on October 2, 2025, focusing on cotton ginning quality standards. The session brought together ginning mill owners, fiber technologists, and progressive farmers to address trash contamination issues in raw cotton lint. The panel formulated standard operating procedures for picking and transportation to ensure local cotton aligns with premium international textile standards.

STRATEGIC POLICY SESSION ON SUSTAINABLE LAND USE PLANNING

The Department of Soil and Environmental Sciences hosted a regional governance session on October 15, 2025, addressing sustainable land use planning. District agricultural officers and town planners participated in the workshop, which focused on the alarming conversion of premium multi-cropped agricultural land into urban residential societies. The university presented data-driven land-mapping models to assist policymakers in formulating zoning regulations that safeguard regional food security.

WORKSHOP ON LOCALLY LED FLOOD RECOVERY: DEMAND FOR GRANTS, NOT LOANS

A critical community workshop titled "Locally Led Flood Recovery: Demand for Grants, Not Loans"

was held at MNS University of Agriculture, Multan on November 3, 2025, in collaboration with the Doaba Foundation, Grow Green Network, and Indus Consortium. The workshop focused on the comprehensive rehabilitation of flood-affected communities, particularly in Jalalpur Pirwala and Alipur, where participants discussed key challenges faced by flood victims and emphasized the need for effective implementation, monitoring, and institutional coordination. Speakers strongly advocated for providing financial grants instead of high-interest loans to affected smallholders and highlighted the importance of incorporating local community voices into long-term recovery planning. The Vice Chancellor underscored climate change as a major driver of these natural disasters, referring to heat waves, winter smog, water scarcity, and their catastrophic impacts on agriculture and public health, while the university announced the provision of free kitchen gardening kits to support affected households and promote immediate food security.

SMOG AWARENESS SEMINAR AND PUBLIC WALK

A public Smog Awareness Seminar was organized at Muhammad Nawaz Shareef University of Agriculture, Multan on November 4, 2025, in collaboration with the Rotary Club, Evyol Group, and the Environmental Protection Agency (EPA) Punjab. The seminar focused on the growing threat of toxic seasonal smog, its severe impacts on human health, crop agriculture, university students, and the ecosystem, and the urgent need for collective civic action to address the crisis. Deputy Director of EPA Punjab briefed participants on ongoing enforcement actions against industrial emissions, vehicular pollution, and crop residue burning, stressing that public cooperation is essential for effective air quality management. The seminar concluded with a highly visible Smog Awareness Walk, in which students, faculty, environmental experts, and civil society representatives participated under the slogan “Clean Air, Safe Future.”

SPECIAL SESSION: STANDARD PACKAGING AND BRANDING TECHNIQUES FOR HORTICULTURAL PRODUCTS

A special value-chain session titled "From Farm Gate to Global Plate: Standard Packaging and Branding Techniques for Horticultural Value-Added Products" was held on November 12, 2025, through a successful collaboration between MNSUAM and the Pakistan Horticulture Development and Export Company (PHDEC). The event shed light on the immense potential for the export of Pakistan’s horticultural products, emphasizing that adopting modern branding, compliance, and standardized packaging is essential to establishing an identity on the global stage. Experts explained the company's ongoing initiatives, such as PakGAP and the 20-80 Cost Sharing Scheme, which directly assist farmers in export preparation and obtaining GlobalGAP certifications. In his concluding remarks, the Vice Chancellor stated that our farmers and young business professionals possess the creative ability to compete at the global level, and highlighted that MNSUAM is determined to turn this change into reality by playing an active role through research-based solutions and skill development.

LAUNCH OF "GROW MORE WHEAT" AWARENESS CAMPAIGN

Upon the explicit instructions of the Punjab Government, MNS Agricultural University launched a

comprehensive campaign titled "Grow More Wheat" on November 13, 2025, to systematically increase wheat production at the national level. The primary purpose of this campaign was to mobilize university agricultural experts and youth to encourage farmers across Punjab to cultivate more wheat and adopt modern production methods. Under this campaign, university students were sent to their respective home districts to raise awareness among farmers about the importance of timely wheat cultivation, the selection of high-yield varieties, and the use of modern agricultural techniques. Leading an awareness walk accompanied by faculty members, the Vice Chancellor stated that wheat holds the status of a backbone for Pakistan's economy and food security, instructing the students to act as ambassadors for agricultural innovation and sustainability in their respective rural areas.

SEMINAR ON PEOPLE, NATURE, AND HARMONY: PAKISTAN'S BIOSPHERE RESERVES IN FOCUS

The seminar "People, Nature, and Harmony," organized by the UNESCO Chair at MNS University of Agriculture, Multan, highlighted the ecological and socio-economic significance of Pakistan's biosphere reserves, specifically positioning the Lal Sohanra Biosphere Reserve as a model "living landscape" where conservation meets sustainable livelihoods. Vice Chancellor Prof. Dr. Asif Ali and international experts addressed the global "triple planetary crisis," advocating for an "ecological civilization" that balances development with environmental stewardship through stronger science-policy linkages and regional cooperation on food security. From a technical and operational perspective, the event focused on practical management strategies for Lal Sohanra, including zoning plans, desert forestry, and the adoption of solar drip irrigation to combat desertification. The seminar also marked a significant step in collaborative governance through the signing of a Memorandum of Cooperation with the TARA Group, establishing a framework for public-private partnerships in research.

SEMINAR ON DEVELOPING EMOTIONAL INTELLIGENCE FOR PERSONAL AND ACADEMIC SUCCESS

An Emotional Intelligence Awareness Seminar was organized by the Hostel Administration at Muhammad Nawaz Shareef University of Agriculture, Multan on December 3, 2025, in collaboration with the Character-Building Society and Umeed Society. The seminar aimed to promote students' emotional well-being and academic success by enhancing their understanding of emotions and interpersonal skills. The session focused on developing self-awareness, emotional regulation, stress management, effective communication, empathy, and responsible decision-making to help students better manage academic and personal challenges. Expert speakers from clinical psychology and educational training fields delivered interactive talks highlighting the importance of self-awareness and emotional regulation as core components of emotional intelligence, explaining how understanding one's own emotions helps individuals respond thoughtfully rather than react impulsively to daily life challenges.

WORLD SOIL DAY CELEBRATIONS (HEALTHY SOILS, HEALTHY CITIES)

World Soil Day 2025 was celebrated with great enthusiasm at Muhammad Nawaz Shareef University of Agriculture, Multan on December 5, 2025, under the auspices of the Department of Soil and Environmental Sciences, in collaboration with Fauji Fertilizer Company Limited (FFC) and the Food and Agriculture Organization (FAO). The event was organized under the theme "Healthy Soils, Healthy Cities" and featured a technical seminar, poster competition, model exhibition, and an awareness walk to highlight the critical importance of soil health. Addressing the participants, the university leadership emphasized that soil health is closely linked to soil microorganisms and stressed the urgent need to protect soils for environmental sustainability, adding that soil plays a fundamental role in national development, food security, and Pakistan's agricultural economy since the survival of soil is our survival.

SEMINAR ON CYBERSPACE AND EXTREMISM: BUILDING A RESILIENT PAKISTAN

A seminar titled "Cyberspace and Extremism: Building a Resilient Pakistan" was held at MNS University of Agriculture, Multan on December 12, 2025, jointly organized by the Punjab Centre of Excellence on Countering Violent Extremism (PCE-CVE), Home Department Punjab, and MNSUAM. Arranged by the Office of the Senior Tutor, the seminar saw active participation from the Character Building Society, Young Students Peace Society, and other academic and literary societies. Presiding over the session, the Vice Chancellor highlighted the growing digital threats faced by youth, the spread of extremist narratives online, and the importance of cyber security awareness. The Chief Guest discussed emerging trends of online radicalization and digital propaganda, and guided students on safe internet practices, recognizing extremist content, and responsible online behavior.

PUNJAB CHIEF MINISTER LAPTOP SCHEME DISTRIBUTION CEREMONY

More than 500 male and female students of Muhammad Nawaz Shareef University of Agriculture, Multan were awarded laptops under the Chief Minister Laptop Scheme on December 19, 2025. The laptops were distributed during a special ceremony presided over by the Vice Chancellor, who highly appreciated the Government of Punjab's initiative, describing it as a significant step toward empowering deserving youth and promoting digital learning across higher education. He emphasized that the laptops would support students in gaining modern knowledge and technical skills essential in today's digital era, and encouraged them to use this facility responsibly for academic excellence, while students expressed their gratitude to the government for this contribution to their educational development.

YOUTH-LED ACTIONS (YLA) LEADERSHIP & CLIMATE PROGRAM

The university served as a strategic host for the Youth-Led Actions (YLA) Program executed from December 2025 to January 2026, in collaboration with the British Council, the Pakistan Youth Leadership Initiative (PYLI), WaterAid, and the Dasra Foundation. The intensive certification program successfully trained 200 postgraduate young people, aged 18 to 24, divided across 5 distinct instructional batches. The training curriculum was specifically designed to foster youth leadership,

climate change awareness, water conservation techniques, and community-based tree plantation methods. Master trainers conducted specialized skill-building sessions covering renewable energy options, clean-up drives, and Water, Sanitation, and Hygiene (WASH) field initiatives, empowering the youth to function as effective change agents in their respective communities.

ANNUAL SPORTS GALA 2025–26 INAUGURATION

The Annual Sports Gala 2025-26 at Muhammad Nawaz Shareef University of Agriculture, Multan commenced on 31 December 2025, marking a lively celebration of athletic excellence, campus unity, and healthy competition across campus. The event brought together students, faculty, administrators, and distinguished guests, creating an atmosphere of enthusiasm and inter-departmental camaraderie that highlighted the university's vibrant extracurricular culture. A diverse lineup of sports activities was organized, including cricket, futsal, volleyball, badminton, chess, kabaddi, races, and tug of war, offering opportunities for both team and individual participation. The gala was inaugurated by the Vice Chancellor, who emphasized that sports are an essential component of education, nurturing discipline, resilience, leadership, and teamwork required for professional and personal success.

PUBLIC CAMP: EMBRACE WELLNESS & WEIGHT MANAGEMENT

The Public Health Society, in collaboration with the Department of Human Nutrition and Dietetics (HND), organized a comprehensive awareness camp entitled "Embrace Wellness: A Practical Approach to Weight Management," on January 7, 2026. The camp was designed to bridge the gap between theoretical knowledge and practical application, providing students with an opportunity to actively participate in real-life health promotion activities. During the event, students conducted anthropometric assessments by measuring participants' weight and height, calculating body mass index (BMI), and identifying weight-related health risks under academic supervision. Based on individual assessments, personalized weight-management counseling was provided, focusing on balanced and culturally appropriate diet planning, hydration, and the integration of regular physical activity into daily routines.

HANDS-ON WORKSHOP ON CLIMATE AND CROP GROWTH MODELING (DSSAT)

On the advice of the university leadership, a three-day hands-on training workshop on Climate and Crop Growth Modeling was successfully organized from January 7 to 9, 2026, under the umbrella of the UNESCO Chair at Muhammad Nawaz Shareef University of Agriculture, Multan. The workshop aimed to strengthen capacity in climate-resilient agriculture by providing practical training in crop simulation and modeling tools to faculty members, researchers, and students. During the training, participants gained in-depth knowledge about climate change and its impacts on agricultural crops and ecosystems, with effective demonstrations of the DSSAT model for analyzing climate change, assessing crop growth, and evaluating various management strategies. Faculty experts highlighted that the DSSAT model is an invaluable tool for researchers as it supports decision-making for future climatic scenarios and optimizing crop management practices.

NATIONAL SEMINAR ON PULSES PRODUCTION TECHNOLOGY FOR FOOD SECURITY

A national seminar on Pulses Production Technology for Food Security was organized on January 15, 2026, by the Department of Plant Breeding and Genetics. The seminar focused on the urgent need to address the domestic production deficit of pulse crops in Pakistan through modern genetic lines and improved crop management. Crop breeders shared high-yielding, climate-resilient seed varieties of chickpea and mungbean with smallholders, emphasizing crop diversification to reduce national import dependency and improve soil nitrogen fixation.

HANDS-ON TRAINING ON KITCHEN GARDENING FOR RURAL WOMEN

The Department of Outreach and Continuing Education organized a hands-on training session on Kitchen Gardening for Rural Women on January 22, 2026. The training workshop aimed to empower rural housewives by equipping them with the practical skills required to grow organic vegetables in their backyards. Instructors distributed free winter vegetable seed kits and demonstrated low-cost composting and water-saving irrigation methods, helping families enhance household food security and overcome nutritional micro-deficiencies.

SPECIALIZED TRAINING ON VALUE ADDITION OF CITRUS FRUITS

The Department of Food Science and Technology hosted a specialized food processing workshop on the Value Addition of Citrus Fruits on February 4, 2026. The training session targeted citrus orchard staff and small-scale entrepreneurs, demonstrating advanced commercial methods for pulp extraction, juice preservation, and rind utilization. Food scientists delivered practical guidelines on international safety standards and standard labeling protocols to help participants maximize their market profitability.

AFS VENTURE SPARK 2026 (6TH EDITION NATIONAL FORUM)

Technological advancements play a crucial role in enhancing productivity and addressing pressing global issues like climate change, food security, and poverty. In light of these objectives, AFS Venture Spark 2026, an entrepreneurial initiative by MNS-University of Agriculture Multan, emerged as a prominent national platform that encouraged innovation and entrepreneurial spirit. On 12 February 2026, the event marked its sixth successful edition, reinforcing its position as a key platform for knowledge sharing, innovation showcasing, and stakeholder collaboration. This year, the event attracted participation from 34 national universities and featured an impressive display of 100 industrial proposals, drawing over 350 active participants and recording a massive footfall of more than 15,000 visitors nationwide, including representatives from academia, the seed sector, banking institutions, and agri-business professionals.

SEMINAR ON COUNTER NARCOTICS AWARENESS

A seminar on Counter Narcotics Awareness was organized on 18 February 2026 under the joint collaboration of the Directorate of Student Affairs and the Punjab Counter Narcotics Force. The

session, delivered by senior counter-narcotics officers, aimed to raise awareness among university students about the harmful biological effects of narcotics and the critical importance of preventing drug abuse in society. The guest speakers delivered detailed briefings on the psychological, physiological, and legal dangers associated with substance abuse, guiding the youth on peer monitoring and maintaining drug-free educational campuses, while the university leadership strongly urged the students to focus their energy constructively on competitive sports, advanced scientific research, and academic excellence.

TRAINING WORKSHOP ON HONEYBEE MANAGEMENT AND EXTRACTION

The Department of Entomology conducted a comprehensive training workshop on Honeybee Management and Extraction on February 25, 2026. The technical session provided local beekeepers and rural entrepreneurs with advanced training on commercial apiary management, including seasonal colony division and queen rearing. Entomologists demonstrated modern, hygienic honey extraction techniques and quality control measures to assist participants in producing export-quality honey that meets international standards.

LAUNCH OF PROVINCIAL EARLY COTTON CULTIVATION CAMPAIGN

Secretary Agriculture Punjab, along with the university leadership, formally inaugurated the Early Cotton Cultivation Campaign at the university on March 7, 2026, marking a significant step toward revitalizing cotton production in Punjab. Addressing the gathering, the Secretary Agriculture shared that the province has set an ambitious target of cultivating cotton on 3.2 million acres this year, including 700,000 acres designated for early cultivation. He emphasized that MNSUAM will play a key role in leading and representing the campaign across the province by facilitating the transfer of modern agricultural research, innovative agronomic practices, and practical knowledge to farmers, particularly in the face of changing climatic conditions, ensuring farmers are provided with certified seeds of improved cotton varieties.

FARMER CONVENTION ON COTTON PRODUCTION

A major Farmer Convention on Cotton Production was held at Muhammad Nawaz Shareef University of Agriculture, Multan on March 7, 2026, in collaboration with the Punjab Agriculture Department and Fatima Fertilizer. The event brought together farmers, agricultural experts, and key industry stakeholders to discuss practical strategies for enhancing cotton production in Punjab. Experts shared modern approaches to cotton cultivation, including improved crop management, effective pest control, and yield enhancement techniques, providing valuable guidance to farmers for the upcoming season, while participants were briefed regarding the availability of fertilizers and interest-free loans through the Kissan Card scheme to boost livelihoods.

FIELD EVALUATION OF INTEGRATED PARTIAL AUTOMATIC POTATO DIGGER

A successful field demonstration and performance evaluation of the Integrated Partial Automatic Potato Digger was conducted on March 9, 2026, at farmer fields in Depalpur under a PSF-funded

research project. The project, led by the Department of Agricultural Engineering in collaboration with Madina Zari Industry, Depalpur, aims to enhance potato harvesting efficiency and drastically reduce collection time through mechanization. Participating experts from the Agricultural Mechanization Research Institute (AMRI) Multan, horticulture specialists, and a PepsiCo representative tested the machine under field conditions, confirming that its digging blades, compaction rollers, conveyor systems, and elevator mechanisms represent a promising step toward strengthening locally developed mechanized solutions.

SCHOOL TEACHERS LEARNING VISIT TO HYDROPONICS UNIT

The Department of Outreach and Continuing Education, in collaboration with the Department of Horticulture, organized a specialized learning visit of local school teachers to the hydroponic facility at MNSUAM on March 17, 2026. The central purpose of the visit was to expose school educators to innovative farming practices and explore their relevance in future agricultural education. Teachers were introduced to modern hydroponic systems and soilless cultivation, observing nutrient delivery systems and plant growth management while discussing efficient water use and controlled-environment agriculture in addressing climate challenges, creating a platform to connect school-level education with advanced university research.

EXPERT SESSION ON DRONE TECHNOLOGY IN AGRICULTURE

The Department of Outreach and Continuing Education organized an expert session on drone technology in agriculture on March 18, 2026, focusing on global advancements and local adoption challenges of drone-based solutions. Featuring international experts from Finland, the session emphasized the critical importance of structured training and certification systems, highlighting the need for regulatory frameworks and safety compliance to support drone integration in Pakistan's agriculture sector. Industry experts provided detailed insights into drone field operations, flight safety protocols, and pilot certification procedures, while practical demonstrations focused on precision spray applications to build farmers' trust in modern technology.

SEMINAR ON WATER AND INDUSTRIAL EQUITY: WHERE WATER FLOWS, EQUALITY GROWS

A seminar was organized at Muhammad Nawaz Shareef University of Agriculture, Multan, in connection with World Water Day on March 26, 2026, under the specific theme "Water and Industrial Equity: Where Water Flows, Equality Grows." Online international guest speakers from Australia and FAO representatives highlighted agriculture in the context of gender equality and climate change, emphasizing capacity building for improved water management. The university leadership highlighted that water scarcity is becoming increasingly serious since only 29 percent of the Earth is land, noting that while Pakistan possesses the potential to generate up to 40,000 megawatts of electricity from water, it is currently generating only 8,000 megawatts, meaning that every drop must be conserved as water is not only life but also national wealth.

HANDS-ON TRAINING ON PLANT BREEDERS' RIGHTS PROCEDURES

The Institute of Plant Breeding and Biotechnology at Muhammad Nawaz Shareef University of Agriculture Multan organized a hands-on training session on Plant Breeders' Rights Application Procedures on April 1, 2026. Around 100 participants from national universities, research institutes, and the private sector across Pakistan attended, where resource persons provided comprehensive guidance on variety protection procedures and application documentation. The Vice Chancellor emphasized the critical importance of protecting plant varieties developed through years of scientific research, proposing the formal establishment of a Seed Academy at MNSUAM to institutionalize variety protection and seed development efforts in collaboration with the Federal Seed Certification and Registration Department.

WORKSHOP ON REGENERATIVE AGRICULTURE AND SUSTAINABLE PRACTICES

Muhammad Nawaz Shareef University of Agriculture Multan, in collaboration with the Cantonment Board, organized a practical workshop on regenerative agriculture on April 5, 2026, where Cantonment Board employees and civil society members participated in sessions focused on sustainable land use. Agricultural scientists provided detailed hands-on demonstrations on compost preparation from household waste, soil health improvement, biodiversity promotion, and urban vegetable growing techniques. Participants were guided on creating organic compost from household materials as a natural alternative to chemical fertilizers, and vegetable seedlings were distributed among all attendees at the end of the workshop to encourage immediate application of the green skills learned.

AWARENESS WALK ON WORLD HEALTH DAY PROMOTES HEALTHY LIVING

MNSUAM organized a vibrant awareness walk on World Health Day under the auspices of the Public Health Society on April 7, 2026, with active participation from students, faculty, and university officials. The Convener of the Public Health Society spoke on the critical need for raising health awareness regarding both physical and mental health among university students and the broader community. The Dean of the Faculty of Veterinary and Animal Sciences highlighted the growing burden of metabolic diseases among youth, strongly advising students to maintain a balanced diet, engage in regular physical activity, and undergo timely medical checkups.

CONSULTATIVE WORKSHOP ON PRIVATE SECTOR RESEARCH PARTNERSHIP

A high-level Consultative Workshop on Private Sector Research Partnership was held at the Avari Hotel Lahore on April 9, 2026, co-organized by MNSUAM, the University of Agriculture Faisalabad, and the Australian Centre for International Agricultural Research (ACIAR). The forum called for stronger research and private sector linkages in agriculture to accelerate innovation, improve input access, and strengthen market linkages for smallholder farmers across Pakistan. Country managers from ACIAR explained the Agri-Business Reference Group's role in connecting companies, farmers, and service providers, with active participation from representatives of seed companies, financial institutions, and exporters who committed to translating workshop outcomes into concrete partnerships.

EDUCATIONAL VISIT BY BLOOMFIELD SCHOOL STUDENTS TO MNSUAM

The Department of Outreach and Continuing Education hosted Pre-O Level students from the Bloomfield School System Multan on April 9, 2026, to introduce young learners to modern agricultural practices and higher education research. Students toured various departments, interacting with faculty across multiple academic disciplines and visiting the hydroponic unit for a first-hand look at soil-free crop cultivation using nutrient-rich water solutions. The young students also visited the bio-floc facility to explore innovative aquaculture techniques and observed active laboratory research, serving as an early career awareness experience to inspire the next generation of scientists.

FIELD VISIT AND REGIONAL AGRICULTURE FORUM AT RAJANPUR SUBSTATION

Vice Chancellor Prof. Dr. Asif Ali joined the Regional Agriculture Forum South Punjab for a comprehensive field visit to the Cotton Research Sub-Station Rajanpur on April 13, 2026, to assess ongoing development work and address irrigation challenges facing regional research. Two practical solutions were proposed for immediate evaluation: securing canal water from a nearby watercourse through coordination with the Irrigation Department, and installing a solar-powered tube well. A joint infrastructure team was formed to ensure timely completion of construction work, noting that 150 university-provided trees have been successfully planted, with plans for 1,000 additional plants to support the station.

21ST SCIENTIFIC WRITING CERTIFICATE TRAINING

The Directorate of Graduate Studies launched the 21st batch of its Scientific Writing Certificate Training program on April 15, 2026, enrolling 35 postgraduate MS and PhD research scholars into the intensive seven-day program. The training equips participants with essential skills in research paper writing, problem identification, literature review, scientific communication, and the peer-reviewed journal manuscript submission process. The university leadership addressed the scholars, emphasizing that critical thinking is foundational and that students must not limit themselves to passive information consumption in the modern era of artificial intelligence.

INNOVATIVE JUICE MAKING COMPETITION

MNSUAM organized an Innovative Juice Making Competition on April 16, 2026, under the joint collaboration of the Department of Home Sciences and the Business Incubation Center to promote creativity, nutritional awareness, and practical food science skills. Students presented a diverse range of fresh fruit juices, vegetable-based drinks, and functional beverages enriched with health-promoting ingredients, drawing professional evaluation from the Head of Beverages at Al-Hilal Industries. The competition served as a practical entrepreneurship exercise, encouraging students to evaluate branding, consumer preferences, and low-cost production models while strengthening teamwork.

TRAINING WORKSHOP ON REGENERATIVE AGRICULTURE AND VERMICOMPOSTING

MNSUAM, in collaboration with the Farmer Development Organization, organized a specialized training workshop on regenerative agriculture on April 17, 2026, drawing farmers from Bahawalpur and Dera Ghazi Khan for a day of practical learning. The university leadership outlined the core principles of regenerative farming, highlighting that adopting these practices can reduce per-acre production costs by up to Rs. 40,000, presenting a compelling economic incentive. Agricultural experts shared international experiences in sustainable farming, while hands-on vermicomposting training demonstrated how earthworms convert organic agricultural waste into premium quality organic fertilizer.

EDUCATIONAL VISIT TO PESTICIDE QUALITY CONTROL LABORATORY, MULTAN

Students of BSc (Hons) Agriculture, accompanied by faculty supervisors from the Department of Soil and Environmental Sciences, conducted an educational visit to the Pesticide Quality Control Laboratory, Multan on April 19, 2026. Students received thorough technical briefings from senior scientists on pesticide categories, chemical properties, and the critical concept of Maximum Residue Limits (MRLs) in consumer safety and export compliance. Laboratory officers explained the facility's quality assurance systems and ISO/IEC 17025 accreditation, providing students with a first-hand understanding of how regulatory labs function as a frontline defense against substandard products.

INTERNATIONAL MOTHER EARTH DAY AWARENESS CELEBRATIONS

MNSUAM celebrated International Mother Earth Day 2026 on April 22 under the global theme 'Our Power, Our Planet' through a comprehensive full-day campaign organized by the Department of Soil and Environmental Science and the Department of Outreach. The ecological initiative included an awareness seminar, poster and model competitions, a cleanliness drive, a campus tree-plantation campaign, and a mini-marathon. Furthermore, free plant and sapling distribution within the surrounding local community successfully extended the event's environmental impact well beyond the university campus boundaries to foster green stewardship.

CAPACITY WORKSHOP ON COMPOSTING AND LOW-CARBON AGRICULTURE

The UNESCO Chair on Low Carbon and Sustainable Agriculture at MNSUAM organized a hands-on capacity-building workshop on composting and low-carbon agriculture at Lal Sohanra National Park, Bahawalpur on April 25, 2026. The field training session was designed to directly benefit 20 local small-scale farmers from the surrounding biosphere area, providing them with technical skills in organic fertilizer management. University scientists delivered practical demonstrations on compost processing and seed ball technology to support sustainable farmer livelihoods and lower carbon footprints.

SEMINAR ON ENVIRONMENTAL AWARENESS AND TREE IMPORTANCE

An environmental awareness seminar was organized on April 26, 2026, under the joint auspices of the

Plant for Life Society and the Green Youth Movement Club to address climate change, deforestation, and soil conservation. Technical teams from the provincial Environmental Protection Department participated, with senior directors linking deforestation trends to rising local temperatures and declining soil quality. Panelists delivered presentations on biofuel plants and their ecological and energy benefits, concluding the activity with an environmental quiz competition for students.

TRAINING OF TRAINERS SESSION ON WATER CONSERVATION (PHEC CLUSTER)

MNSUAM organized a specialized Training of Trainers session on water conservation under the Punjab Higher Education Commission R&D Cluster on April 27, 2026, to equip faculty and students to educate school and college students in Multan. Technical trainers presented scientific data showing rapid global freshwater decline due to climate change and population growth, warning that severe water scarcity is an impending challenge. The workshop introduced the concept of water budgeting, treating water as a finite, quantifiable resource rather than a free commodity to address intensive groundwater depletion in South Punjab.

MEDICAL SEMINAR ON JOINT DISEASES RAISES HEALTH AWARENESS

MNSUAM organized a one-day medical seminar on joint diseases on April 28, 2026, to raise public health awareness among university students, faculty, and administrative staff. Guest speaker Prof. Dr. Khalil Ahmad Gill provided detailed clinical insight into rheumatoid arthritis and osteoarthritis, covering their distinct causes, progression patterns, and manifestation timelines. The lecture outlined both pharmacological and non-pharmacological treatment options, including physiotherapy, dietary modifications, and weight management, urging participants to adopt preventive habits including a calcium-rich diet and regular exercise.

AWARENESS SEMINAR ON VACCINES FOR EVERY GENERATION

MNSUAM hosted an awareness seminar titled 'Vaccines for Every Generation' on April 29, 2026, marking World Immunization Week 2026, in collaboration with REEDS Pakistan, EPI Punjab, Agaahi, and Gavi. The seminar focused on improving vaccination coverage for zero-dose or missed-dose children, addressing persistent public misconceptions, and highlighting the ongoing HPV vaccination campaign for girls aged 9 to 14. Health experts presented national strategies for increasing immunization coverage and clarified that mild side effects like fever are normal immune responses that are far less harmful than the diseases vaccines prevent.

SPECIALIZED WORKSHOP ON SOIL TESTING AND FERTILIZER SELECTION

The Department of Soil and Environmental Sciences executed a technical extension workshop on May 6, 2026, dedicated to specialized soil testing methods and strategic fertilizer selection. The training session targeted local small-scale fertilizer distributors and sub-dealers, educating them on interpreting laboratory soil analysis reports and calculating localized nutrient deficiencies. Instructors demonstrated field-level digital testing kits to help distributors provide accurate, crop-specific fertilizer recommendations to smallholders, reducing unnecessary input costs.

FIELD SESSION ON POST-HARVEST HANDLING OF VEGETABLES

A practical field session on the Post-Harvest Handling of Vegetables was conducted on May 12, 2026, under the joint supervision of the Department of Horticulture and the Business Incubation Center. The outreach program trained local vegetable growers and market traders on sorting, washing, and modern cold-chain packaging practices designed to minimize physical bruising and post-harvest spoilage during transit. The session highlighted standard cooling and stacking techniques required to maintain vegetable freshness and lock in higher wholesale market returns.

INTERNATIONAL DAY OF PLANT HEALTH PUBLIC AWARENESS WALK

The Department of Plant Pathology at MNSUAM organized a vibrant series of activities to mark the International Day of Plant Health on May 14, 2026, to raise public awareness about plant health protection and inspire the next generation of plant scientists. Keynote speakers described plant health as a matter of extreme global importance, directly linked to the stability of food systems, rural livelihoods, and long-term national security, noting that climate-driven disease outbreaks make modern plant protection research urgent. Students prepared and displayed highly informative posters on crop pathology, and the event concluded with a campus-wide public awareness walk.

WORLD MIGRATORY BIRD DAY AWARENESS SEMINAR AND PLANTING

MNSUAM celebrated World Migratory Bird Day on May 15, 2026, through a comprehensive awareness seminar organized in collaboration with the Department of Climate Change, the Green Youth Movement Club, and the UNESCO Chair. The event's central theme focused on the protection of migratory birds, the preservation of regional biodiversity, and the growing ecological threats posed by climate change, habitat destruction, and human encroachment. Wildlife officers and environmental experts delivered lectures urging communities to protect natural wetlands, while the Plant for Life Society conducted a concurrent campus tree-plantation campaign to enhance sustainable bird habitats.

INTERACTIVE TRAINING ON DIRECT SEEDING OF RICE (DSR METHODS)

The Department of Agronomy organized an interactive training field day on Direct Seeding of Rice (DSR Methods) on May 22, 2026, to promote water-saving agricultural practices among progressive rice growers. Agronomists demonstrated specialized DSR drill operations, seed priming requirements, and precise pre-emergence weed management protocols necessary to bypass traditional, water-intensive nursery transplanting methods. The training session detailed that adopting DSR technology can save irrigation water by up to 35% and drastically reduce labor costs for smallholders.

AWARENESS SEMINAR ON DAIRY HERD HEALTH MANAGEMENT

The Faculty of Veterinary and Animal Sciences hosted an awareness seminar on Dairy Herd Health Management on May 28, 2026, for local dairy farmers and livestock field staff. Veterinary specialists delivered practical training on seasonal mastitis prevention, modern vaccination schedules, and heat-

stress mitigation strategies required to maintain dairy herd performance under extreme summer temperatures. The seminar emphasized balanced nutritional ration formulation using available local green fodder to optimize milk fat percentages and ensure animal wellness.

WORLD ENVIRONMENT DAY 2026 PRACTICAL FORUM

When World Environment Day rolled around this year, the Department of Soil and Environmental Sciences organized a practical forum on June 5, 2026, built around the global theme "Inspired by Nature — Environment for Our Future." Guest speakers walked students, faculty, and local citizens through the everyday power of "Reduce, Reuse, Recycle," sparking an interactive session full of practical environmental inquiries. The university leadership closed the forum by tying individual eco-actions back to the "One Health, One World" concept, noting that a healthy environment underpins a healthy society for people, animals, and plants alike.

3-DAY TECHNICAL TRAINING WORKSHOP ON URBAN FORESTRY

Urban forestry took center stage this month as Muhammad Nawaz Shareef University of Agriculture teamed up with the Farmers Development Organization for a three-day technical training workshop on June 8, 2026, that drew large crowds of civil society members, students, and municipal staff. Master trainers walked participants through everything from planning, layout, and planting to the long-term care of urban forests, building upon the university's project of planting 2,000 on-campus trees. At the closing ceremony, master trainers distributed educational booklets to students to ensure knowledge dissemination beyond the campus.

TECHNICAL FIELD TRAINING ON TUNNEL FARMING ALTERNATIVES

The Department of Horticulture executed a technical field training session on Tunnel Farming Alternatives on June 12, 2026, at the university's experimental research farms. The outreach workshop provided local vegetable farmers and commercial growers with hands-on instructions on high-tunnel construction, plastic gauge selection, drip irrigation layout setup, and plastic mulching practices. Horticulturists detailed how off-season vegetable cultivation under plastic tunnels shields crops from extreme climate shocks and secures early-market premium returns.

ANTI-DRUG AWARENESS SEMINAR AND CAMPAIGN WALK

Ahead of the International Day against Drug Abuse and Illicit Trafficking, MNSUAM's Directorate of Student Affairs hosted a comprehensive awareness seminar on June 19, 2026, featuring expert speakers from the Anti-Narcotics Force and the Punjab Counter Narcotics Force. Guest speakers stressed that combating regional drug abuse requires coordinated, proactive action from parents, teachers, and student communities to protect the youth from substance abuse. The university leadership urged students to focus their energies on competitive sports, advanced scientific research, and academic performance, concluding the campaign with an institutional public awareness walk.

WORKSHOP ON INTEGRATED WEED MANAGEMENT IN SUMMER CROPS

The Department of Agronomy organized an extension workshop on Integrated Weed Management in Summer Crops on June 24, 2026, for smallholders and farm labor managers. Agronomists detailed chemical, mechanical, and cultural weed control methods required to eliminate high-density weed infestations in standing summer cotton, maize, and fodder crops. The session focused on the economics of timely weed eradication, showing participants how proper eradication prevents severe nutrient theft and locks in optimum harvest weight.

CERTIFICATE DISTRIBUTION FOR UNIVERSITY COMMUNITY INTERNS

The Directorate of External Linkages hosted a formal Certificate Distribution Ceremony for University Community Interns on June 28, 2026, marking the successful completion of the summer rural mobilization cycle. The university leadership presented completion certificates to graduate interns who had been deployed across rural districts of South Punjab to transfer climate-smart agricultural technologies and farm advisory services directly to farming families. The ceremony honored the youth for their role in community empowerment, strengthening the relationship between academia and rural smallholders.

9.3 TECHNICAL SHORT COURSES

Project Name	Course Name	Duration	No. of Participants	Funding Agency
PM Youth Skills Development (Batch-II)	Agriculture Farm Assistant	10/03/2025 to 01/10/2025	40	NAVTTC
PM Youth Skills Development (Batch-II)	Integrated Pest Management	10/03/2025 to 01/10/2025	40	NAVTTC
PM Youth Skills Development (Batch-II)	Agribusiness	10/03/2025 to 02/06/2025	20	NAVTTC
PM Youth Skills Development (Batch-II)	Mushroom Cultivation Technique	10/03/2025 to 02/06/2025	20	NAVTTC
University Short Courses	Computer Application in Office (Batch-I)	11/06/2025 to 10/08/2025	40	Uni. Short Courses
University Short Courses	Computer Application in Office (Batch-I)	23/06/2025 to 22/08/2025	43	Uni. Short Courses
University Short Courses	Spoken English Batch-I	23/06/2025 to 22/08/2025	40	Uni. Short Courses

University Short Courses	Digital Marketing and E-Commerce Batch-I	23/06/2025 to 22/08/2025	47	Uni. Short Courses
University Short Courses	Graphic Designing	23/06/2025 to 22/08/2025	41	Uni. Short Courses
University Short Courses	Digital Marketing and E-Commerce	13/10/2025 to 12/12/2025	29	Uni. Short Courses
University Short Courses	Video Editing & YouTube	13/10/2025 to 12/12/2025	4	Uni. Short Courses
University Short Courses	Graphic Designing	13/10/2025 to 12/12/2025	10	Uni. Short Courses
Youth-Led Actions (YLA) Program	Youth Leadership, Climate & WASH Training	Dec 2025 to Jan 2026	200	British Council / PYLI
University Short Courses	Computer Application in Office (Batch-II)	10/11/2025 to 09/01/2026	25	Uni. Short Courses
MNSUAM-FDO Climate Partnership	Short Course on Climate-Resilient Urban Dev	Launched 30/03/2026	Standard Cohort	FDO / MNSUAM Joint
Business Incubation Center (BIAEC)	Startup Cohort-5 Induction Process	Closes 31/03/2026	Selected Startups	University ORIC
University Short Courses	Digital Marketing, Video Editing & Graphics	07/04/2026 to 11/06/2026	26	Uni. Short Courses
University Short Courses	Computer Application in Office	16/04/2026 to 23/06/2026	20	Uni. Short Courses
	Total Short Course Graduates		**645**	

9.4 DESCRIPTIVE DETAILS OF SHORT COURSES & PROFESSIONAL TRACKS

PRIME MINISTER YOUTH SKILLS DEVELOPMENT TRACKS (BATCH-II / NAVTTC FUNDED)

The university successfully executed a series of government-funded technical skill-development certifications under the Prime Minister Youth Skills Development Program (Batch-II) in partnership with NAVTTC, designed to systematically upgrade human resource competencies and enhance

comprehensive 6-month farm supervisor certification program that trained young professionals in mechanized crop field layout design, advanced harvest handling practices, and primary farm data record maintenance. The Integrated Pest Management track provided a rigorous 6-month field diagnostics curriculum that covered Economic Threshold Level calculations, beneficial predator insect identification, and the deployment of localized non-chemical traps to protect standing orchards from pest pressures. The Agribusiness track functioned as an intensive 3-month corporate planning program that delivered foundational instruction on project costing, supply-chain marketing, cold-chain logistics, and modern packaging frameworks to prepare entrepreneurs for commercial enterprise entry. The Mushroom Cultivation Technique track delivered a specialized 3-month indoor production program that trained participants in controlled-environment mushroom bedding design, substrate sterilization methods, internal humidity regulation, and small-scale urban commercial packaging configurations to stimulate non-farm household income.

UNIVERSITY SELF-GENERATED CAPACITY SHORT COURSES

MNSUAM independent certification systems organized multiple fee-based, self-generated short courses throughout the academic cycle to bridge technical capability gaps and directly strengthen youth employment metrics across modern corporate and digital media platforms. The Computer Application in Office training modules were executed across multiple independent batches to provide intensive instruction on spreadsheet engineering, data entry automation, corporate digital communications, and standard workplace operating documentation. The Spoken English Masterclass delivered a comprehensive language proficiency and communications program designed to improve student interview presentation, workplace technical writing capabilities, and verbal confidence. The Digital Marketing and E-Commerce tracks provided hands-on training mapping search engine optimization (SEO) basics, online advertising campaign setup, social media product placements, digital storefront management, and virtual transaction gateway operations. The Graphic Designing and Video Editing modules delivered technical digital layout instruction focusing on commercial brand iconography creation, marketing asset development, corporate video timeline editing, and professional YouTube channel monetization mechanics.

YOUTH-LED ACTIONS (YLA) PROGRAM TRACKING

The Youth-Led Actions (YLA) program was successfully executed as an elite, multi-batch collaborative certification framework targeting early-career postgraduates to drive green infrastructure development and civic responsibility across local regional communities. The specialized climate-focused curriculum trained young people on global Water, Sanitation, and Hygiene (WASH) standards, the mechanical design of domestic low-carbon organic composting units, and the practical implementation of solar energy budgeting options for smallholders. Furthermore, the program incorporated active hands-on field operations where training batches organized urban environmental clean-up drives, mapped regional wastewater drainage gaps, and executed community-inclusive tree plantation campaigns to establish long-term environmental stewardship at the grassroots level.

SPECIALIZED CLIMATE AND ENTERPRISE PLACEMENTS

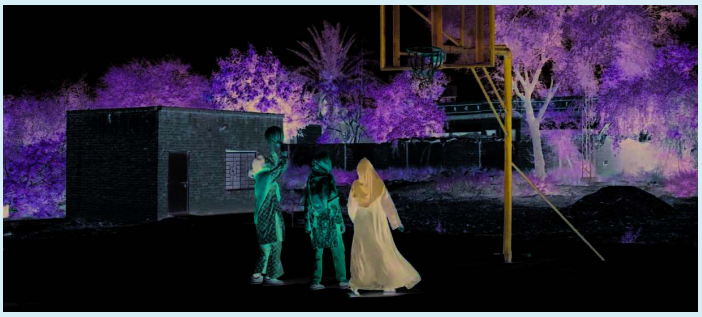
The university expanded its professional academic placements through targeted, high-impact regional development tracks addressing climate-resilient development and startup commercialization. The Short Course on Climate-Resilient Urban Development was formally launched under the strategic supervision of the Department of Climate Change and the Farmers Development Organization (FDO) to train regional community development professionals and municipal field staff in managing urban green infrastructure, conducting ecological risk assessments, and planning localized climate adaptation measures. Concurrently, the Business Incubation and Agricultural Entrepreneurship Centre (BIAEC) successfully completed its Cohort-5 startup induction training, providing selected student teams with intensive professional mentorship, industrial seed linkages, laboratory testing facilities, and investor pitch training to transform applied research prototypes into sustainable commercial business ventures.

SPORTS



Chapter 10
Sports











Chapter 10
Sports





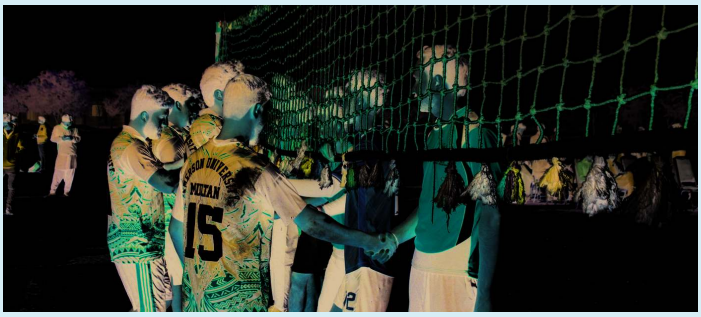






Chapter 10
Sports











CHAPTER

10 SPORTS

Sports play a pivotal role in promoting physical fitness, mental well-being, leadership, discipline, and teamwork among students. Recognizing the importance of sports in higher education, the Directorate of Sports at Muhammad Nawaz Shareef University of Agriculture, Multan, remained committed to providing an inclusive and dynamic environment that encourages active participation in recreational and competitive sporting activities throughout the academic year 2025–26. The Directorate continued its efforts to foster a culture of sportsmanship by organizing a variety of interdepartmental, inter-university, and training activities, enabling students to develop their athletic potential alongside their academic pursuits.

The Directorate strives to provide equal opportunities for male and female students to participate in sports and physical activities while promoting a healthy and balanced lifestyle. Through well-planned sports events, selection trials, coaching camps, and participation in Higher Education Commission (HEC) competitions, the Directorate has strengthened student engagement and enhanced the University's representation at regional and national levels. Continuous collaboration with experienced coaches and sports professionals has further contributed to improving the quality of training and the overall sports environment on campus. These initiatives reflect the University's commitment to holistic student development and the promotion of excellence in sports.

SPORTS COMMITTEE

Prof. Dr. Muhammad Ashfaq	Director Sports
Muhammad Arqam Iqbal	Assistant Director Sports

Sr. No.	Sports Activities	Venue	Male	Female	Date
1	Winter Sports Gala • Cricket Championship • Badminton Championship (Male & Female) • Football Championship • Tug of War (Male & Female) • Chess Championship • Basketball Championship (Male & Female)	MNSUAM	350	140	31-12-25 To 08-01-2026

- Kabaddi
- Volleyball
- Races (400m for Male & 100m for Female)

2	Organized HEC Intervarsity Volleyball Championship Zone-J at MNSUAM	MNSUAM	15	0	27-01-2206 To 30-01-2026
3	Participated in HEC Inter-University Cricket Championship Zone-J at BZU	BZU	20	0	13-02-2026
4	Badminton Championship (Male)	MNSUAM	140	0	04-03-2026 To 06-03-2026
5	Badminton Championship (Female)	MNSUAM	0	100	09-03-2026 To 11-03-2026
6	Organized Female Basketball Training Camp and Match	MNSUAM	0	20	01-04-2026 To 03-04-2026
7	Cricket Trials and Training Camp	MNSUAM	100	0	27-04-2026
8	Organized Kabaddi Match MNSUAM vs Emerson University Multan	MNSUAM	20	0	28-04-2026
9	Organized Football Match MNSUAM vs MUST	MNSUAM	18	0	15-05-2026

UNIVERSITIES BUILDING LEADERSHIP

Muhammad Nawaz Shareef
University of Agriculture
Multan



Chapter 11

Universities Building Leadership







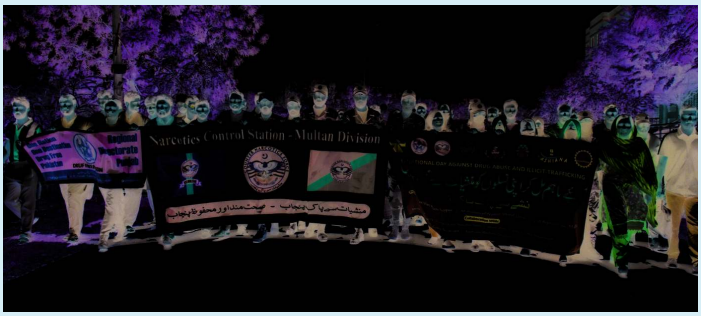




Chapter 11

Universities Building Leadership











CHAPTER 11

UNIVERSITIES BUILDING LEADERSHIP

11.1 DIRECTORATE OF STUDENT AFFAIRS

The Directorate of Student Affairs is committed to creating a supportive, inclusive, and student-centered environment that promotes academic success and personal growth. It serves as the primary liaison between students and the University administration, ensuring that students receive timely guidance, essential services, and opportunities for holistic development throughout their academic journey.

The Directorate oversees a wide range of student services, including admissions support, student welfare, healthcare, guidance and counseling, scholarships, financial assistance, sports, extracurricular activities, and hostel accommodation. From a student's first inquiry about admission to graduation, the Directorate remains actively engaged in facilitating a smooth, safe, and rewarding campus experience.

In addition to providing student support services, the Directorate works to maintain discipline and uphold University regulations by addressing unlawful or inappropriate activities in accordance with institutional policies. It also represents students' concerns before the University administration, helping to resolve genuine issues and improve the overall quality of campus life.
Recognizing that education extends beyond the classroom, the Directorate encourages students to participate in sports, literary, cultural, and artistic activities. These initiatives foster leadership, teamwork, creativity, and confidence while contributing to the development of well-rounded graduates.

Through its diverse programs and student-focused initiatives, the Directorate of Student Affairs strives to provide a positive learning environment that nurtures intellectual, social, cultural, and personal development, while strengthening the connection between students and the University community.

11.2 STUDENT SOCIETIES AND CLUBS

To promote holistic student development beyond the classroom, the Directorate of Student Affairs has established a diverse range of student societies and clubs. These platforms encourage students to explore their interests, develop leadership and communication skills, engage in community service, and showcase their academic, literary, artistic, technical, and athletic talents. Through regular events, workshops, competitions, awareness campaigns, and volunteer activities, these societies foster creativity, teamwork, civic responsibility, and personal growth.

The following student societies and clubs are currently active at the University:

1. Qirrat and Naat Club (QNC)
2. MNS-UAM Literary Club
3. MNS-UAM Debating Club
4. Music Club (Mosigala Beats)
5. MNS-UAM Art and Dramatic Society (MADS)
6. Naqsh Media Club
7. Young Students Peace Society (YSPS)
8. Rotaract Club of MNS-UAM
9. Plant for Life Society (PLS)
10. Cleanliness and Environment Volunteer Force (CEVF)
11. Character Building Society (CBS)
12. Blood Donation Society
13. Coding Hawk Society
14. Public Health Society
15. Society of Engineers and Technologists (SET)
16. Cyber Security Society
17. Rover Scout Unit
18. Agriculture Volunteers Society (AVS)
19. MNS-UAM Data Science Society
20. Sports Club
21. Young Peace and Development Corps

These societies play a vital role in enriching campus life by providing students with opportunities to develop their potential, cultivate leadership qualities, and contribute meaningfully to the university and the wider community.

11.3 ACTIVITIES ORGANIZED BY MNS-UAM STUDENT CLUBS AND SOCIETIES

Student clubs and societies at MNS University of Agriculture, Multan (MNS-UAM) remained actively engaged throughout the year by organizing a wide range of academic, professional, cultural, social, and community service activities. These initiatives provided students with valuable opportunities to enhance their leadership, communication, technical, and interpersonal skills while promoting civic responsibility and holistic development.

11.4 CELEBRATIONS OF NATIONAL AND INTERNATIONAL DAYS

- Plant for Life Society (PLS) organized a plantation drive at the Miyawaki Urban Forest, MNS-UAM, to commemorate Kashmir Solidarity Day, promoting peace and expressing solidarity with the people of Kashmir (February 5, 2026).

- MNS University of Agriculture, Multan, in collaboration with the Office of the Senior Tutor, BIAEC, and the Department of Home Sciences, celebrated International Women's Day. The event featured keynote addresses by Ms. Hina Chughtai, CEO of Silcoshine Paints, and Ms. Sadia Kirmani, CEO of Kirmani and Chairperson of Muhammad Bin Qasim Blind Welfare Complex (March 10, 2026).

11.5 CAPACITY BUILDING AND PROFESSIONAL DEVELOPMENT

- Public Health Society organized a nutrition awareness camp titled "Embrace Wellness: A Practical Approach to Weight Management," promoting balanced nutrition and sustainable healthy lifestyle practices (January 7, 2026).
- Society of Social Scientists, in collaboration with the State Bank of Pakistan and Habib Bank Limited, organized a seminar titled "Banking on Equality and SMEs Financing" to promote financial inclusion and create awareness about financing opportunities for small and medium-sized enterprises (January 8, 2026).
- Public Health Society organized a seminar on "Road Safety and Public Health: Saving Lives Beyond Hospital," with Mr. Muhammad Khawar Masood Khan, Traffic Safety Engineer, Punjab Road Safety Authority, serving as the resource person (January 8, 2026).
- The Office of the Senior Tutor organized an awareness session on the Prevention of Violent Extremism, promoting tolerance, patience, mutual respect, and peaceful coexistence among students (January 13, 2026).
- The Institute of Plant Breeding and Biotechnology (IPBB) organized an Interactive Session on Seed Legislation, featuring Dr. Aslam Yousuf, CEO of Hisell Seeds, who discussed variety approval procedures, Truth in Labelling, and regulations governing hybrid and genetically modified crops (January 15, 2026).
- The Faculty of Veterinary and Animal Sciences (FVAS), in collaboration with the Pakistan Animal Scientists Welfare Association (PASA), organized an awareness seminar on the Role of the Livestock and Poultry Sector in the National Economy of Pakistan (January 16, 2026).
- The Office of the Senior Tutor, in collaboration with Rivest Learning, organized a two-day training workshop on Countering Gender-Based Hate Speech (February 9–10, 2026).
- Green Youth Movement Club organized a Sustainable Development Goals (SDGs) Training Workshop, with Dr. Muqarrab Ali as the resource person (February 9, 2026).
- The Directorate of Student Affairs and the Office of the Senior Tutor jointly organized a seminar on Counter-Narcotics Awareness, featuring Col. (R) Waqar Azam, Director, NCS Multan, Punjab Counter Narcotics Force, as the guest speaker (February 18, 2026).
- A Recruitment Drive for Bayer's Agriculture Internship Program was organized to facilitate career opportunities for MNS-UAM graduates, with media coverage provided by Naqsh Media Club (February 25, 2026).
- The Institute of Computing organized a seminar on "E-commerce Growth and Global Opportunities 2026," delivered by Dr. Amir Hussain (February 26, 2026).

- Public Health Society organized a seminar titled "Safe Fasting in Ramzan: Guidelines for Diabetic Patients and Oral Health Maintenance," focusing on healthy fasting practices during Ramadan (March 5, 2026).
- Young Students Peace Society (YSPS) organized "Ramadan for Peace," highlighting the values of peace, compassion, patience, unity, and social harmony during the holy month of Ramadan (March 5, 2026).
- Public Health Society organized the seminar "Healthy Heart, Healthy Nation: Youth as Catalysts for Preventive Healthcare," promoting cardiovascular health and preventive healthcare awareness among youth (May 7, 2026).
- The Society of Engineers and Technologists (SET), in collaboration with the Agriculture Volunteers Society (AVS), organized a training workshop and project exhibition titled "Building Better Soil: Compost System and Project Showcase," led by Engr. Dr. Sarfraz Hashim, Master Trainer (May 7, 2026).
- Qirrat and Naat Club (QNC) organized "Shan-e-Mustafa (SAW)," with Allama Syed Zair Abbas Zaidi as the guest of honour (May 13, 2026).
- The Directorate of Student Affairs and the Office of the Senior Tutor organized a Seminar on Drug Awareness and Prevention, with Mr. Waleed Nasar Warraich, Assistant Director/In-charge, Anti-Narcotics Force (ANF), Multan, as the guest speaker (June 17, 2026).

11.6 SOCIAL DRIVES AND VOLUNTEER SERVICES

- Agriculture Volunteers Society (AVS), in collaboration with the Society of Social Scientists, organized a campus cleanliness drive to promote environmental awareness (December 9, 2025).
- Agriculture Volunteers Society, together with the Blood Donation Society, Young Students Peace Society, Plant for Life Society, and Green Youth Movement, conducted a campus-wide cleanliness campaign (December 24, 2025).
- A "Mena Bazar" was organized for university and hostel students, featuring stalls offering food, clothing, handicrafts, and other products (February 16, 2026).
- The Society of Engineers and Technologists (SET), in collaboration with the MNS-UAM Art and Dramatic Society (MADS) and the Literary Club, organized an Iftar gathering for children at Bait-e-Jamila Foundation Orphanage (March 5, 2026).
- Young Students Peace Society arranged an Iftar dinner for children at Bait-e-Jamila Orphanage, fostering compassion and community service (March 9, 2026).
- The Society of Social Scientists hosted an Iftar dinner for approximately 140 children at Idara-e-Khudi Orphanage Home, along with the distribution of clothes and Eid gifts (March 16, 2026).
- Agriculture Volunteers Society organized a cleanliness campaign to mark World Earth Day (April 22, 2026).

- Public Health Society organized a seminar titled "Safe Fasting in Ramzan: Guidelines for Diabetic Patients and Oral Health Maintenance," focusing on healthy fasting practices during Ramadan (March 5, 2026).
- Young Students Peace Society (YSPS) organized "Ramadan for Peace," highlighting the values of peace, compassion, patience, unity, and social harmony during the holy month of Ramadan (March 5, 2026).
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11.7 ART, LITERATURE AND CULTURE

- The MNS-UAM Debating Club organized the Interdepartmental Trilingual Declamation Competition, "غنچۂ گل," to commemorate Kashmir Solidarity Day, with more than 30 participants delivering speeches in Urdu, English, and Punjabi (February 4, 2026).
- The Debating Club, in collaboration with the Student Council, organized the "عزم جناح" English and Urdu Declamation Competition, with Vice Chancellor Prof. Dr. Asif Ali (T.I.) as the chief guest (March 4, 2026).
- The Literary Club organized an online Interdepartmental Essay Competition to commemorate the 150th Birth Anniversary of Quaid-e-Azam Muhammad Ali Jinnah, judged by Dr. Muazzama Batool and Dr. Rana Muhammad Naeem (March 10, 2026).
- The MNS-UAM Debating Club organized the 2nd All Pakistan Bilingual Declamation Contest, "Sehar-e-Intisab 2," attracting more than 70 participants from across the country. The event was graced by Vice Chancellor Prof. Dr. Asif Ali (T.I.) and Prof. Dr. Shazia Anjum, Vice Chancellor, The Government Sadiq College Women University, Bahawalpur (April 23, 2026).
- The Literary Club organized an online Interdepartmental Essay Competition celebrating the 150th Birth Anniversary of Allama Muhammad Iqbal (April 24, 2026).
- The Literary Club hosted the 56th Adbi Bethak, dedicated to the renowned poet Nasir Kazmi (April 29, 2026).
- The Literary Club organized the 57th Adbi Bethak, titled "Maanwan Thandiyan Chawan," as a tribute to mothers on the occasion of Mother's Day (May 14, 2026).

11.8 ENTREPRENEURSHIP AND PROFESSIONAL SKILLS

- The Business Incubation Centre (BIC), MNS-UAM, organized the Venture Spark Entrepreneurship Promotion Event, in which all student clubs and societies actively participated. Media coverage of the event was provided by Naqsh Media Club (Feburary 11–12, 2026).
- Plant for Life Society showcased its Vermicompost Initiative and Miyawaki Urban Forest Model during Venture Spark 2026 under the guidance of Dr. Muqarrab Ali (February 12, 2026).

11.9 SPORTS, COMPETITIONS AND STUDENT ACHIEVEMENTS

- The Sports Club organized a week-long Sports Gala, involving students from all academic departments. Cash prizes and trophies were awarded to winners and runners-up, with sponsorship provided by Topsun (January 1, 2026).
- The Sports Club hosted the HEC Volleyball Zone-J Qualifier at MNS-UAM, with approximately five universities from the Multan region participating. Bahauddin Zakariya University (BZU) emerged as the champion (January 26, 2026).
- The Sports Club organized a Ramzan Badminton Championship, featuring friendly competitions between students and faculty members (March 4, 2026).
- The Society of Engineers and Technologists (SET) organized an Interdepartmental Poster Competition on World Earth Day under the theme "Sustainable Water Management," attracting more than 100 registrations (April 22, 2026).

11.10 FACULTY LEADERSHIP

- Prof. Dr. Muhammad Hammad Nadeem Tahir (Institute of Plant Breeding and Biotechnology) is a member of Oilseed Research and Development Board, Punjab.
- Prof. Dr. Muhammad Hammad Nadeem Tahir (Institute of Plant Breeding and Biotechnology), is a member of Institutional Performance Evaluation (IPE) Committee constituted by HEC for Salim-Habib University, Karachi.
- Prof. Dr. Muhammad. Hammad Nadeem (Institute of Plant Breeding and Biotechnology), is HEC nominee for Plagiarism Standing Committee of Sir Syed University of Engineering and Technology (SSUET), Karachi.
- Prof. Dr. Muhammad Hammad Nadeem (Institute of Plant Breeding and Biotechnology) is nominated as Coordinator, Faculty of Agriculture and Environmental Sciences, MNSUAM.
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy) is a member of production plan of different crops at Punjab level.
- Member of the Institution of Engineering and Technology (IET), UK (MIET-1101030401)
- External Examiner of Department of Agricultural Engineering, BZU Multan
- External Examiner of Department of Agricultural Engineering, UAF
- Member of World Society of Sustainable Energy Technologies (WSSET-2440)
- Member of Pakistan Engineering Congress (# 6483)
- Member of Pakistan engineering Society
- Memeber of Paksitan society of Agricultural Engineers

- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), Member zonal technical committee of South Punjab.
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), member of annual research program of adaptive research farms, Punjab
- Prof. Dr. Abdul Ghaffar (Chairman, Department of Agronomy), member
- board of studies, University of Sargodha, Sargodha.
- Dr. Muqarrab Ali was nominated as member of board of directors at Parks and Horticulture Authority Multan.
- Dr. Muqarrab Ali as Focal person and member board of advisors of the project 'Fostering a Climate-Resilient Multan' by Farmers Development Organization.
- Dr. Amar Matloob notified as the member of committee to evaluate the impacts of climate change on agriculture, recommend mitigation and adaptation measures, and review climate-related project proposal received by Punjab Agriculture Department.
- Dr. Unsar Naeem Ullah, Member District Emergency Relief Committee (DERC) for Dengue vector Multan
- Dr. Unsar Naeem Ullah, Member in CottonConnect Research Group
- Dr. M. Ishtiaq, Focal Person, Career Development Center / Placement Bureau
- Dr. M. Ishtiaq, Member, Farm Advisory Committee
- Dr. Muhammad Nadir Naqqash, Member District Emergency Relief Committee (DERC) for Dengue vector Multan
- Dr. Muhammad Nadir Naqqash, Superintendent, Mulberry courts (Boys hostel)
- Dr. Kashif Razzaq is a member of Board of Studies of Institute of Horticulture Sciences Univeristy of Agriculture Faisalabad as well Department of Horticulture, Bahauddin Zakariya University, Multan.
- Dr. Kashif Razzaq is a member Annual Program of Research Work (Horticulture Group) Ayub Agricultural Research Institute, Faisalabad and Mango Research Institute Multan.
- Dr. Kashif Razzaq has developed standardized certification protocols for fruit plant nurseries in Pakistan
- Dr. Zulqurnain Khan is serving as, Biosafety Officer, MNSUAM.
- Dr. Babar Farid is nominated as Director Student Affairs, MNSUAM.
- Dr. Mehmood Alam is notified as Director Farms, MNSUAM.
- Dr. Plosha Khanum is notified as Female Hall Warden, MNSUAM.
- Dr. Umar Akram is serving as, Additional Senior Tutor, MNSUAM.
- Dr. Babar Farid and Dr. Akash Fatima are serving as, Club In charges, Character Building Society, MNSUAM.
- Ms Shafa Nayab was awarded the prestigious Meryl Williams Fellowship by the Australian Centre for International Agricultural Research (ACIAR). The fellowship strengthens women's leadership, professional networks and capacity to contribute to agricultural research, institutional development, and policy engagement.
- Dr. Syeda Anum Masood Bokhari (Department of Horticulture) is a member as Director in Board of Directors in Pakistan Horticulture Development and Export Company (PHDEC).

These activities reflect the vibrant extracurricular environment at MNS-UAM and demonstrate the University's commitment to fostering leadership, creativity, professional excellence, social responsibility, volunteerism, and community engagement among its students.

FINANCE



CHAPTER 12

FINANCE

12.1 FINANCIAL YEAR AT A GLANCE

Particulars	Approved Budget 2025-26	Revised Budget 2025-26	Actual 2025-26
RECEIPTS			
Opening Balance	82.224	81.219	81.219
Govt. Grants	383.370	374.106	374.106
University's Own Sources (Self-Generated Income)	751.427	691.612	690.286
Donation	8.000	2.650	2.650
Total Receipts	**1,225.021**	**1,149.587**	**1,148.261**
EXPENDITURES			
Salary Expenditures	727.557	620.317	614.743
Non Salary Expenditures	547.695	467.927	437.029
Total Expenditures	**1,275.252**	**1,088.244**	**1,051.769**
Surplus/Deficit	**50.231**	**61.343**	**96.492**
Development Budget			
Development Budget	746.720	645.008	645.008
Trends (in Rupees)			
Trend of Per Student Spending (Salary Expenses Basis)	97,574	104,695	103,754
Trend of Per Student Spending (Non-Salary Expenses Basis)	69,516	78,975	73,760
Total own income/own sources per student (in Rupees)			
Total own income per student	**108,275**	**116,728**	**116,504**

UNIVERSITY GOVERNANCE



CHAPTER 13

UNIVERSITY GOVERNANCE

The MNS University of Agriculture, Multan, was announced by the Chief Minister, Punjab, on January 28, 2012. The University was established under the Act 2013 of the Punjab Assembly with the objective of imparting professional education in agriculture sciences and allied disciplines by catering to the needs of population, nationally and regionally. The Act XXII of 2013 authorized the University to establish the following authorities to supervise the affairs of the University for its smooth functioning.

13.1 SYNDICATE

The Syndicate is the executive body of the University and takes effective measures to raise the standard of teaching, research, technological development, publications, and other academic pursuits. As of June 30, 2024, a total of 41 meetings of Syndicate had been held, out of which, four held in 2025-26 are given below:

Sr. No.	Meeting	Date
1	43rd	03-08-2025
2	44th	03-10-2025
3	45th	24-11-2025
4	46th	27-12-2025
5	47th	11-04-2026

13.2 SELECTION BOARD

The Selection Board considers the applications and recommends to the Syndicate, the names of suitable candidates for appointment to teaching and other posts and recommends a suitable salary for the selected candidate; it also considers cases of promotion or selection of officers of the University and recommends the names of suitable candidates for such promotion or selection to the Syndicate. The details of the selection board meeting held during current year are given below

Sr. No.	Meeting	Date
1	23rd	24-07-2025

2	24th	15-05-2026 16-05-2026
3	25th	12-06-2026 13-06-2026

13.3 ACADEMIC COUNCIL

The Academic Council is the highest academic body of the University and lays down proper standards of instruction, research, publication, and examination, regulates and promotes the academic activities of the University.

Sr. No.	Meeting	Date	Minutes Circulation Date
1	14th	05-09-2025	12-09-2025
2	15th	20-12-2025	15-01-2026
3	16th	18-05-2026	01-06-2026

13.4 BOARD OF ADVANCED STUDIES AND RESEARCH (BASR)

The Board of Advanced Studies and Research advises on all matters connected to the promotion of advanced studies and research publications at the University. The following meetings of the Board were held during 2025-26:

Sr. No.	Meeting	Date
1	27th	18-07-2024
2	28th	04-09-2025
3	29th	10-12-2025
4	30th	10-03-2026
5	31st	06-05-2026

OFFICE OF THE RESOURCE GENERATION/ DEVELOPMENT



CHAPTER

14 OFFICE OF THE RESOURCE GENERATION/DEVELOPMENT

Sustainability of higher education institutions is possible only by employing various modern methods and using non-conventional techniques for resource generation and commercialization by involving the local community, staff, political leadership and foreign funding agencies.

The MNS University of Agriculture, Multan is working in coordination with the UC Davis and JICA on different doable proposals regarding modern lab development, date palm production/quality and mango production/quality.

The University's Financial Aid Office, P&D Office and ORIC are vigorously pursuing the funding agencies with the plan proposals in order to develop a state of the art agriculture institution in the Southern Punjab.

14.1 SCHOLARSHIP PROGRAM

MNS University of Agriculture, Multan is committed to making quality higher education accessible and affordable to all eligible students across Pakistan, irrespective of their socioeconomic background. Recognizing that financial constraints can be a significant barrier to pursuing and completing higher education, the Students Financial Aid Office (SFAO) was established at MNS University of Agriculture, Multan in 2015 to provide comprehensive financial assistance, guidance, and advising services to students in need.

The SFAO is dedicated to supporting students in identifying appropriate sources and strategies for financial assistance, understanding available funding opportunities, and successfully navigating the financial aid application, assessment, and award processes. Through scholarships, fee assistance, financial support programs, and other available funding opportunities, the Office strives to ensure that financial difficulties do not prevent deserving and talented students from accessing quality education or achieving their academic and career aspirations.

The Office works to create an enabling environment in which students from low- and middle-income households and financially disadvantaged backgrounds can continue their studies with greater confidence and financial security.

As part of its commitment to institutional excellence, the SFAO continuously works to expand access to diverse forms of financial assistance and to facilitate students in availing themselves of available university, government, donor-funded, and other scholarship and financial support opportunities. The Office also provides guidance and counseling to help students and their families make informed

decisions regarding financial assistance and fulfill the necessary requirements within prescribed timelines.

The SFAO is committed to maintaining transparency, fairness, efficiency, responsiveness, and accountability throughout all stages of financial aid administration. Appropriate management and monitoring systems are employed to ensure that financial assistance is processed and awarded in accordance with approved policies, eligibility criteria, and institutional regulations, while safeguarding the interests of students and the University. Through these efforts, the Students Financial Aid Office contributes to the University's broader mission of promoting equitable access to higher education, student success, social mobility, and inclusive academic excellence.

Ultimately, the SFAO seeks to ensure that no deserving student is deprived of the opportunity to pursue higher education solely because of financial hardship, and that eligible students receive the guidance and financial support necessary to successfully complete their educational journey.

14.2 MISCELLANEOUS FACILITIES

In addition to scholarships and other formal financial aid programs, the Students Financial Aid Office facilitates students through the following financial support mechanisms:

14.2.1 TUITION FEE CONCESSION

Tuition fee concession of up to 50% may be provided to eligible financially deserving students, subject to the approved University policy and recommendations of the Dean/competent authority. The facility may be extended to up to 10% of the students in a class, in accordance with the prescribed criteria.

14.2.2 INSTALLMENT FACILITY FOR FEE PAYMENT

Financially constrained students may be facilitated through the payment of university dues in installments, subject to approval by the competent authority. This facility enables deserving students to manage their educational expenses without disruption to their studies.

14.2.3 RESEARCH-BASED FINANCIAL SUPPORT

Students may be provided opportunities to participate in research projects funded by HEC, government departments, public-sector organizations, and national and international institutions. Where applicable, students may receive remuneration, stipends, or other financial support for their research contributions, enabling them to gain valuable research experience while supporting their educational expenses.

14.2.4 STUDENT EMPLOYMENT AND HOURLY-BASED WORK OPPORTUNITIES

The University may engage eligible students on an hourly or part-time basis in appropriate academic, administrative, research, laboratory, library, and other institutional activities. Such opportunities provide students with financial support while enabling them to develop practical skills, professional competencies, work ethics, and hands-on work experience relevant to their future careers.

14.2.5 FACILITATION OF EXTERNAL FINANCIAL ASSISTANCE

The Office facilitates eligible students in accessing government scholarships, donor-funded programs, private-sector support, and other national and international financial assistance opportunities by providing information, guidance, and assistance with application and documentation requirements.

14.3 KEY VALUES OF SFAO

The SFAO is committed to upholding the following core values in all aspects of its operations:

- Transparency and Integrity in the assessment, processing, and award of financial assistance.
- Student-Centered Service to students, their families, the public, and all relevant stakeholders.
- Effective Resource Management and Accountability in the administration of financial aid programs and utilization of available resources.
- Proactive Communication and Outreach to identify and support economically disadvantaged and deserving students and families.
- Continuous Improvement of financial aid programs, policies, procedures, and student support services to enhance accessibility, efficiency, and effectiveness.

14.4 UNDER AND POSTGRADUATE SCHOLARSHIP AWARDED DURING (2025-2026)

Scholarship Type	No. of Awardees	Amount (Million PKR)
Merit Scholarship	439	3.00
HEC Need Based	88	8.67
Honhaar Scholarship	1228	119.43
Islamic Relief Pakistan Scholarship	17	1.08
PEEF Undergraduate	51	2.20
PEEF Master Level	5*	0.47*

PEEF (LAD)	103	5.15
Khawaja Masood Research Based Scholarship	3	0.25
Petal Seeds	1	0.156
Usher Scholarship	86	3.20
Bait-Ul-Mal	14	0.38
Rasheed Memorial Scholarship	5	0.28
Sona Welfare Scholarship	1	0.096
Diya Foundation	1	0.018
BEEF	38	3.19
TOTAL	**2080**	**147.57**

EXTERNAL LINKAGES

Muhammad Nawaz Shareef
University of Agriculture
Multan



Chapter 15
EXTERNAL LINKAGES











Chapter 15
EXTERNAL LINKAGES









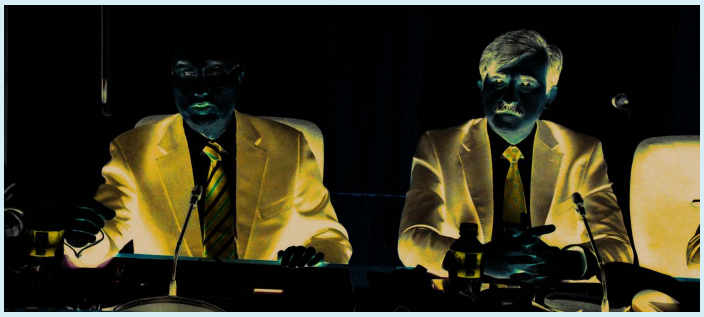


Chapter 15

EXTERNAL LINKAGES











CHAPTER 15

EXTERNAL LINKAGES

The Directorate of External Linkages (DEL) continued to strengthen the University's national and international partnerships during the financial year July 2025 to June 2026. The Directorate remained committed to expanding strategic collaborations with leading universities, research institutions, industries, government organizations, and development partners to enhance academic excellence, research innovation, technology transfer, student employability, and community engagement.

Through a proactive partnership strategy, MNS University of Agriculture, Multan significantly expanded its collaborative network during the year by establishing linkages with renowned institutions from Asia, Europe, North America, and national public and private sector organizations. These partnerships are expected to facilitate faculty and student mobility, joint research, commercialization of research outputs, entrepreneurship development, capacity building, technology transfer, and internationalization of the University.

The Directorate also actively facilitated collaborations aligned with the University's strategic priorities including climate-smart agriculture, food security, biotechnology, sustainable development, agricultural innovation, industry engagement, and international academic cooperation.

15.1 VISION

To establish purposeful linkages with national and international academia, organizations, stakeholders, and industries for developing sustainable and mutually beneficial partnerships.

15.2 MISSION

To establish strategic collaborations and consortia with national and international organizations that strengthen scientific cooperation, promote innovation, enhance capacity building, support professional learning, facilitate technology transfer, and extend community services to address emerging local, regional, and global challenges.

15.3 ACHIEVEMENTS

During the financial year July 2025 to June 2026, the Directorate of External Linkages achieved a major expansion of the University's collaborative network by facilitating the signing of 36 Agreements of Cooperation (AoCs), Memoranda of Understanding (MoUs), and Memoranda of Cooperation (MoCs) with leading national and international organizations.

These included:

- 16 international collaborations with universities and research institutions from China, Türkiye, Indonesia, Thailand, Azerbaijan, Uzbekistan, and the United States.
- **20 national collaborations** with universities, government organizations, industries, hospitals, non-governmental organizations, foundations, and agribusiness companies across Pakistan.

These strategic partnerships focus on:

- Joint research and innovation
- Faculty and student exchange programmes
- Academic collaboration
- Capacity building and professional development
- Joint degree and training programmes
- Climate-smart agriculture
- Biotechnology and agricultural innovation
- Entrepreneurship and business incubation
- Industry-academia collaboration
- Internship and employment opportunities
- Sustainable agriculture and food security
- Technology commercialization and knowledge exchange

The Directorate also strengthened MNSUAM's international visibility by establishing collaborations with globally recognized universities and research institutes, particularly in China and Central Asia, thereby supporting the University's internationalization strategy.

15.3.1 MAJOR STRATEGIC INITIATIVES (2025–26)

In addition to expanding the University's portfolio of national and international collaborations, the Directorate of External Linkages undertook several strategic initiatives aimed at strengthening institutional partnerships, improving governance of collaborative agreements, and enhancing the University's national and international visibility.

IMPLEMENTATION OF THE MOU MONITORING AND EVALUATION MECHANISM

To improve the effectiveness and accountability of institutional collaborations, the Directorate designed and implemented a comprehensive monitoring and evaluation framework for Agreements of Cooperation (AoCs), Memoranda of Understanding (MoUs), and Memoranda of Cooperation (MoCs). The mechanism introduced a structured, three-phase evaluation system to assess the initiation, implementation, and long-term outcomes of collaborative agreements. This evidence-based approach enables periodic assessment of partnership performance and supports informed decision-making regarding the continuation, renewal, or strategic enhancement of institutional collaborations.

PARTICIPATION IN THE HEC CPEC CONSORTIUM OF UNIVERSITIES

The Directorate actively represented MNS University of Agriculture, Multan in activities organized under the Higher Education Commission (HEC) CPEC Consortium of Universities. Following the visit of the Chairman, HEC, and a delegation of Pakistani Vice Chancellors to China, the Directorate coordinated the University's participation in consortium meetings, compiled institutional collaboration data, and facilitated engagement with partner universities. These efforts positioned MNSUAM to explore new opportunities in joint research, faculty and student mobility, postgraduate education, agricultural innovation, and technology transfer under the framework of Pakistan–China academic cooperation.

EXPANSION OF STRATEGIC COLLABORATIONS WITH CHINESE UNIVERSITIES

During the reporting period, particular emphasis was placed on strengthening academic and research partnerships with Chinese universities and research organizations. New collaborations were established with several prestigious institutions, including Xinjiang Agricultural Vocational & Technical University (XAVTU), Xichang University, Weifang Engineering Vocational College, Southwest University of Science and Technology, and Tarim University, while collaborative engagement was also expanded with research institutes under the Chinese Academy of Agricultural Sciences (CAAS). These partnerships support joint research, faculty exchange, student mobility, academic training, technology transfer, and innovation in agriculture, biotechnology, food sciences, and climate-smart agriculture.

STRENGTHENING ACADEMIA–INDUSTRY LINKAGES

The Directorate further enhanced collaboration between the University and industry by facilitating partnerships with leading seed companies, agribusinesses, food processing industries, healthcare organizations, and development agencies. These collaborations promote applied research, industrial internships, entrepreneurship, technology commercialization, professional training, and employment opportunities for graduates, thereby contributing to the University's mission of producing industry-ready professionals and addressing national agricultural challenges.

PROMOTION OF STRATEGIC NETWORKING AND INSTITUTIONAL OUTREACH

The Directorate actively promoted institutional networking through engagement with national and international universities, government agencies, industries, professional organizations, and development partners. Numerous high-level meetings, institutional visits, and partnership discussions were facilitated throughout the year, further strengthening MNSUAM's visibility and expanding opportunities for collaborative research, capacity building, and resource mobilization.

INITIATION OF THE MNSUAM ALUMNI ASSOCIATION NETWORK (MAAN)

Recognizing the importance of alumni engagement in institutional development, the Directorate initiated the establishment of the MNSUAM Alumni Association Network (MAAN) during the reporting period. Preliminary activities included the development of the proposed organizational framework,

stakeholder consultations, and the launch of an alumni registration initiative. The establishment of MAAN is expected to strengthen alumni engagement, professional networking, mentorship opportunities, resource mobilization, and long-term institutional development in the coming years.

15.4 INTERNATIONAL AOCS / MOUS / MOCS (JULY 2025 – JUNE 2026)

Sr. No.	Collaborating Organization	Country	Date Signed
1	Kirsehir Ahi Evran University	Türkiye	24 July 2025
2	Xinjiang Agricultural Vocational & Technical University (XAVTU) / Pakistan TEVT Industrial Center of Excellence	China	21 October 2025
3	Sekolah Tinggi Ilmu Ekonomi Tri Dharma Nusantara, Makassar	Indonesia	3 November 2025
4	Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari	Indonesia	3 November 2025
5	Sekolah Tinggi Ilmu Ekonomi Amkop, Makassar	Indonesia	3 November 2025
6	Universitas Lamappoleonro, Soppeng	Indonesia	3 November 2025
7	Universitas Megarezky, Makassar	Indonesia	3 November 2025
8	Universitas Sawerigading, Makassar	Indonesia	3 November 2025
9	Xichang University & Institute of Urban Agriculture, CAAS	China	2 December 2025
10	Aspire Pakistan Inc.	USA	9 December 2025
11	Weifang Engineering Vocational College	China	16 December 2025
12	Southwest University of Science and Technology	China	15 January 2026
13	Walailak University	Thailand	16 January 2026
14	Azerbaijan State Agricultural University (ADAU)	Azerbaijan	1 June 2026
15	Tarim University	China	17 June 2026

16	Scientific Research Institute of Agriculture, Republic of Karakalpakstan	Uzbekistan	30 June 2026

15.5 NATIONAL AOCS / MOUS / MOCS (JULY 2025 – JUNE 2026)

Sr. No.	Collaborating Organization	Date Signed
1	Government Pak-German Polytechnic Institute for Agriculture Technology (PGICA)	22 August 2025
2	University of Agriculture, Faisalabad	24 August 2025
3	Mian Fazal Rehman Hospital, Multan	5 September 2025
4	Save Our Society Foundation (SOSF), Pakistan	26 September 2025
5	Harvest Seed Corporation (Pvt.) Ltd., Larkana	16 October 2025
6	Fair Field Enterprise, Multan	23 October 2025
7	Tara Group Pakistan	18 November 2025
8	The Islamia University of Bahawalpur	29 December 2025
9	Bulleh Shah Packaging (Pvt.) Ltd., Lahore	22 August 2025
10	Akora Seed Company	24 August 2025
11	Jullundur Seed Corporation	5 September 2025
12	Petal Seed Company	26 September 2025
13	University of Agriculture, Swat	16 October 2025
14	Pakistan Japan Socio-Economic Association	23 October 2025
15	Molana Tariq Jamil Foundation	18 November 2025
16	Farmers Development Organization (FDO), Multan	29 December 2025
12	Petal Seed Company	26 September 2025
13	University of Agriculture, Swat	16 October 2025

14	Pakistan Japan Socio-Economic Association	26 March 2026
15	Molana Tariq Jamil Foundation	9 March 2026
16	Farmers Development Organization (FDO), Multan	30 March 2026
17	Government Sadiq College Women University, Bahawalpur	15 April 2026
18	IFANCA Pakistan Halal Apex (Pvt.) Ltd.	12 May 2026
19	Raza Farm Pakistan	16 June 2026
20	Akhuwat Pakistan	18 June 2026

15.6 LOOKING AHEAD (2026–27)

Building upon the progress achieved during 2025–26, the Directorate of External Linkages will continue to strengthen MNS University of Agriculture, Multan's national and international engagement by developing high-impact strategic partnerships that contribute to academic excellence, research innovation, technology transfer, and sustainable socio-economic development.

During the coming year, the Directorate will prioritize the effective implementation and periodic evaluation of existing Agreements of Cooperation (AoCs), Memoranda of Understanding (MoUs), and Memoranda of Cooperation (MoCs) through the newly established monitoring and evaluation framework. Greater emphasis will be placed on transforming signed agreements into measurable outcomes through collaborative research projects, faculty and student exchanges, joint academic programmes, and externally funded initiatives.

The Directorate will continue to expand international collaborations with leading universities, research institutes, industries, and development organizations, with particular focus on strengthening partnerships established through the Higher Education Commission (HEC) CPEC Consortium of Universities. Special attention will be given to developing collaborative programmes with Chinese universities and research organizations in priority areas including climate-smart agriculture, biotechnology, artificial intelligence in agriculture, food security, precision agriculture, and sustainable natural resource management.

Recognizing the growing importance of innovation and entrepreneurship in higher education, the Directorate will further promote academia–industry partnerships by facilitating collaborative research, industrial internships, technology commercialization, professional training programmes, consultancy services, and industry-sponsored research projects. These efforts will enhance graduate employability while contributing practical solutions to national agricultural and industrial challenges.

The Directorate also intends to facilitate the establishment of multidisciplinary research networks and encourage joint applications for competitive national and international research funding. Increased emphasis will be placed on attracting international scholars, promoting faculty mobility, supporting student exchange programmes, and enhancing the University's global academic visibility through strategic international engagement.

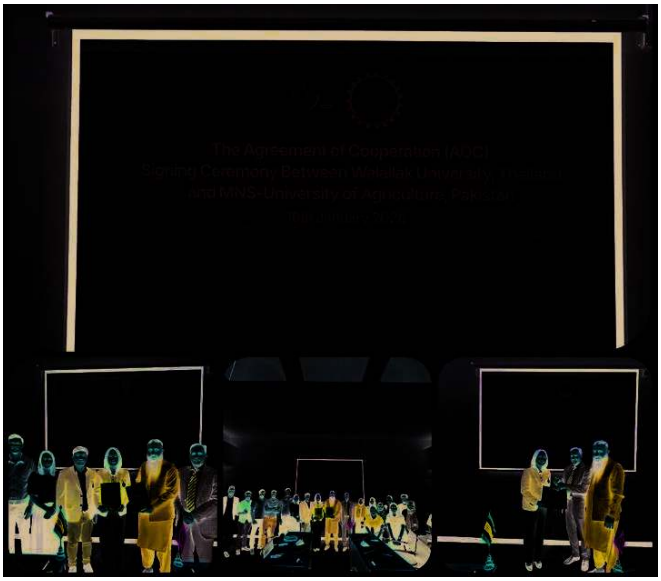
During the forthcoming year, efforts will also continue towards the formal establishment and operationalization of the **MNSUAM Alumni Association Network (MAAN)**. The Directorate aims to strengthen alumni engagement by developing a sustainable platform that promotes professional networking, mentorship, philanthropic support, career development, and long-term collaboration between alumni and the University.

Furthermore, the Directorate will continue strengthening institutional governance by adopting digital systems for managing partnerships, monitoring collaborative activities, and documenting outcomes. This will support evidence-based decision-making, improve institutional efficiency, and ensure that strategic partnerships deliver tangible academic, research, and societal benefits.

Through these initiatives, the Directorate of External Linkages will continue to advance MNSUAM's vision of becoming a globally connected agricultural university, fostering impactful partnerships that contribute to scientific advancement, innovation, capacity building, and sustainable development at the national and international levels.

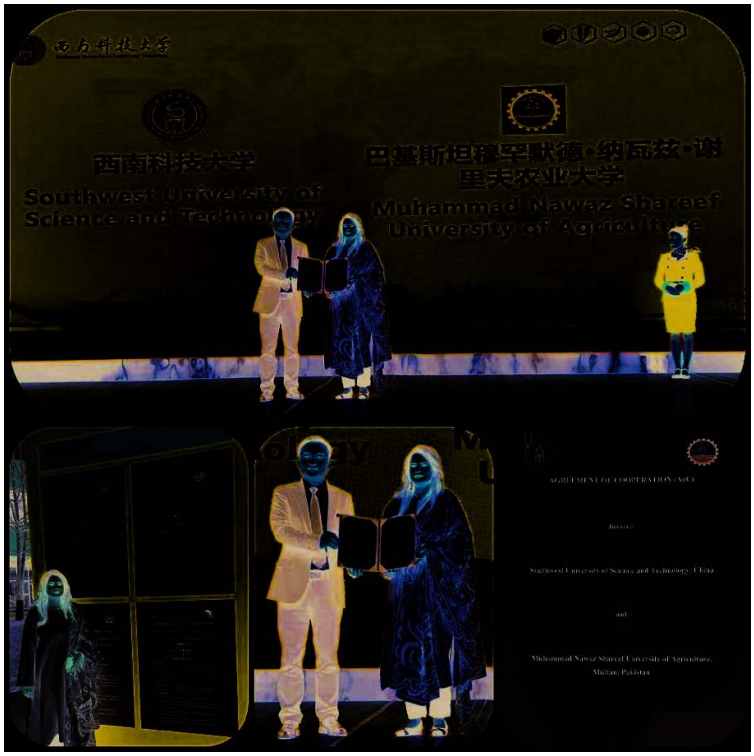
15.7 GALLERY OF MAJOR ACTIVITIES (2025–26)

The Directorate of External Linkages organized and facilitated a number of strategic meetings, partnership ceremonies, international collaborations, industry engagement activities, and institutional events during the reporting period. Selected photographs highlighting these activities are presented below.





AoC Signing Ceremony between Walailak University, Thailand and MNS University of Agriculture, Multan dated 16th Jan. 2026 held at Thailand.



AoC Signing Ceremony between Southwest University of Science and Technology, CHINA and MNS University of Agriculture, Multan dated 15th Jan. 2026 held at CHINA .





Visit of Chinese CEO from Shandong and Uqab Corporation Pvt. Ltd". to MNS University of Agriculture, Multan dated 23rd Jan 2026.



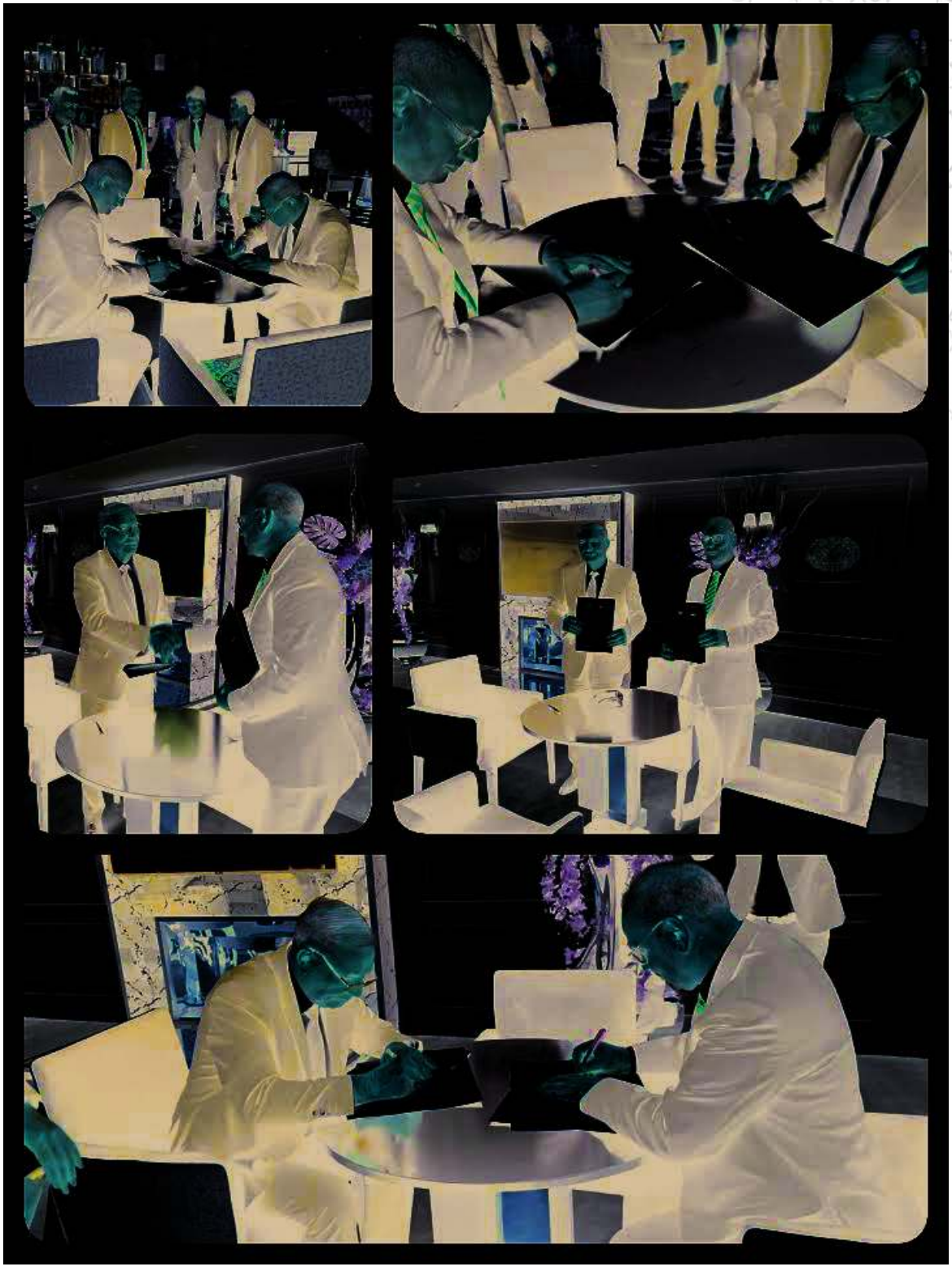
Akora Seed Company, KPK, Petal Seed Company, KPK, & Jullundur Seed Corporation, RYK and MNSUAM dated 12th Feb 2026.



Strategic MoU Signed to Strengthen Academic and Research Collaboration between MNSUAM and UoAS." dated 12th Feb2026.



“Faculty Development Session on Strategic Academic Planning" jointly organised by the IPBB and the Directorate of External Linkages, MNSUAM, dated 16th Feb2026.



Memorandum of Cooperation (MoC) with the Council of Ministers of the Republic of Karakalpakstan, Uzbekistan between MNSUAM. " dated 30th June 2026.

MEDICAL AND HEALTH FACILITIES

Muhammad Nawaz Shareef
University of Agriculture
Multan

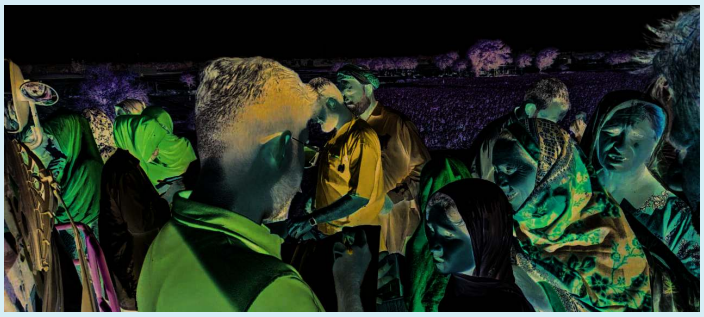


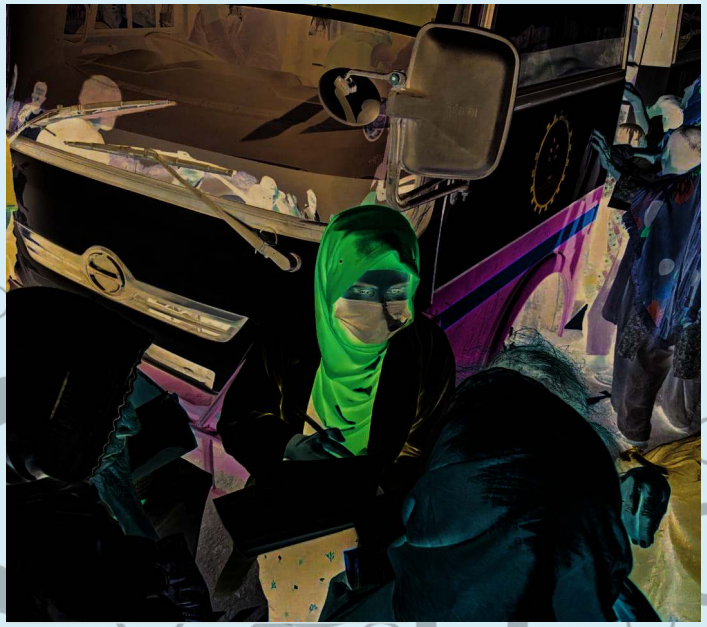
Chapter 16

Medical And Health Facilities











CHAPTER 16

MEDICAL AND HEALTH FACILITIES

16.1 AVAILABLE MEDICAL FACILITIES

- Free ambulance service
- First aid services for students and employees of the university
- Basic eye checkups at the Wellness Centre
- Basic health checkups
- Free counseling services
- Women Sanitary

16.2 MEDICAL CAMPS

- Free digital diabetes screening is available at the University Wellness Centre. Blood glucose levels of students, faculty members, and staff are regularly assessed to promote early detection and improve diabetes awareness.
- In collaboration with NIH and UC Davis, USA, we are working to establish a blood-based TB test for children under 10, addressing the challenge of sputum production in children.
- A free health awareness camp titled "Embrace Wellness: A Practical Approach to Weight Management" was organized by the Public Health Society to promote healthy lifestyle practices and obesity prevention among students, faculty, and staff. The camp provided health education, practical guidance on weight management, and personalized counseling to encourage long-term wellness and reduce the risk of non-communicable diseases.
- Our medical camps offer a variety of free services, including hemoglobin, cholesterol, blood glucose, and uric acid tests. Visual acuity is assessed using the Snellen chart, while blood pressure, pulse rate, body temperature, and body mass index are measured. Additionally, free nutritional counseling is provided.
- Women Sanitary basics were distributed among female students in our hygiene campaign with local NGOs

16.3 WELLNESS CENTER EXTENSION

- The University Wellness Centre now operates at three locations within the university: A Block, B Block, and the Girls' Hostel.
- Free blood glucose screening is available at the University Wellness Centre using standard glucometer testing.
- In addition to physical health services, the Wellness Centre addresses mental health concerns by offering counseling services to help individuals manage stress and improve overall well-being.

16.4 PUBLIC HEALTH SOCIETY

- The Public Health Society has actively promoted healthy lifestyles and raised awareness within the community throughout the year.
- The society has developed a health calendar to educate individuals on their health status and encourage proactive healthcare practices.
- The society observes various health-related awareness days and organizes seminars and campaigns for events such as Breast Cancer Awareness Month, World Heart Day, World AIDS Day, and World Health Day, among others.
- Additionally, the society enhances university students' ability to perform, understand, and analyze medical tests.
- To further its mission, the society collaborates with other institutions to gather up-to-date data on prevalent diseases, stigmas, nutritional misconceptions, lifestyle choices, healthcare facilities, and policy matters.
- Hygiene initiative was launched in collaboration with local NGOs to educate females about the importance of hygiene.

16.5 MEMORANDUM OF UNDERSTANDING WITH PUNJAB AIDS CONTROL PROGRAM (PACP)

- A Memorandum of Understanding (MoU) has been established with the Pakistan AIDS Control Programme (PACP) to promote collaborative initiatives in public health. Under this partnership, a joint HIV/AIDS awareness and screening camp is planned for September 2026 to enhance awareness, encourage voluntary testing, and strengthen preventive health services for the university community.
- Our collaboration with the Health Services Academy provides a platform for academic cooperation, research, capacity building, and mutual data sharing to address public health challenges and support evidence-based health initiatives.

16.6 BS AND MS PUBLIC HEALTH PROGRAMS

- The University has successfully obtained the No Objection Certificate (NOC) for the resumption of the MS Public Health program after addressing the minor observations raised during the review process. Both, BS and MS Public Health programs at the university are highly successful, contributing to community health awareness through interventions, research, and awareness campaigns. These programs produce well-equipped graduates in the field of public health.

16.7 COLLABORATION WITH UC DAVIS

- In collaboration with UC Davis, USA, we are progressing towards developing a new blood-based TB test for patients where sputum production is problematic.

16.8 MOSQUITO AND MOSQUITO BORNE DISEASES

- Surveillance of mosquitoes, especially Dengue vectors, is carried out across the whole of the university every week throughout the year.
- Pictures of at least 30 activities per working day on average for Anti-Dengue, were uploaded to the dashboard of PITB created for Dengue and its vector mosquitoes.
- Identification of samples of mosquito larvae received from the Health Department was done, occasionally.
- Dr. Unsar Naeem-Ullah, Associate Professor, and Dr. Muhammad Nadir Naqqash, Assistant Professor, Entomology, MNSUAM, attended the meetings of District Emergency Response Committee (DERC) for Dengue vector management.
- Dr. Unsar Naeem-Ullah, Associate Professor, Entomology, MNSUAM delivered a talk on "Dengue for Flood" on September 20, 2026 on Rohi TV.
- Dr. Unsar Naeem-Ullah, Associate Professor, Entomology, MNSUAM organized a seminar / webinar on October 29, 2025, regarding Dengue and Dengue Vector mosquitoes in the GRC (Graduate Resource Center, MNSUAM) for Students, Faculty and Staff of the university and general public.
- Dr. Unsar Naeem Ullah, Associate Professor, Entomology, MNSUAM was invited as Guest speaker for presenting seminar on "Dengue Awareness" and a Walk in Department of Zoology, The Women University, Multan on November 18, 2025.
- Dr. Unsar Naeem-Ullah, Associate Professor, Entomology, MNSUAM facilitated Anti-Mosquito spray / fumigation on December 05, 2025, with the help of Health Department in Academic Building, Admn Block and STIK Library on the request of Dr. Wazir Ahmed.
- Dr. Unsar Naeem-Ullah, Associate Professor, Entomology, MNSUAM facilitated Indoor Residual Spray (IRS) for mosquitoes on April 25, 2026, with the help of Health Department in Jasmine Courts on the request of the Warden.

16.9 COMMUNITY SERVICES

- Dr. M. Adnan Sabir, In-charge of the Public Health Society, has actively led a series of public health awareness and capacity-building initiatives to promote health education and disease prevention within the university and the wider community. These activities included an awareness camp titled "Embrace Wellness: A Practical Approach to Weight Management", hands-on training on "Road Safety and Public Health: Saving Lives Beyond the Hospital", a seminar on "Basic Life Support (BLS) and CPR Training: Saving Lives Through Timely Actions", and a seminar on "Medical Laboratory Specimen Management and Hazard Control" to enhance practical knowledge and emergency preparedness among students.
- The Public Health Society also organized two educational seminars on diabetes, focusing on the current burden of diabetes in Pakistan, evidence-based diabetes diabetes management strategies, and diabetes management during Ramadan and fasting. In collaboration with the Pakistan National Heart Association (PANAH), the

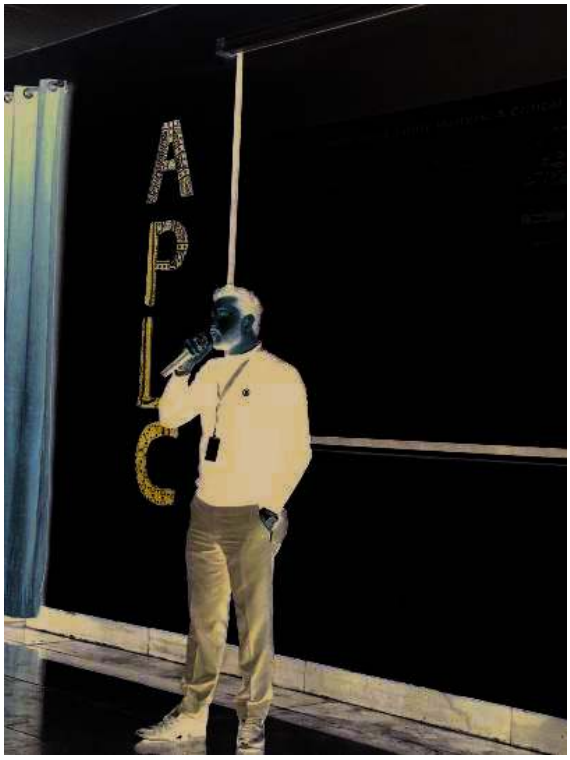
Society further conducted multiple awareness seminars promoting cardiovascular health, healthy lifestyle practices, and the prevention of non-communicable diseases. Collectively, these initiatives have strengthened health literacy, encouraged preventive healthcare practices, and enhanced the professional competencies of students while contributing to community engagement and public health promotion.

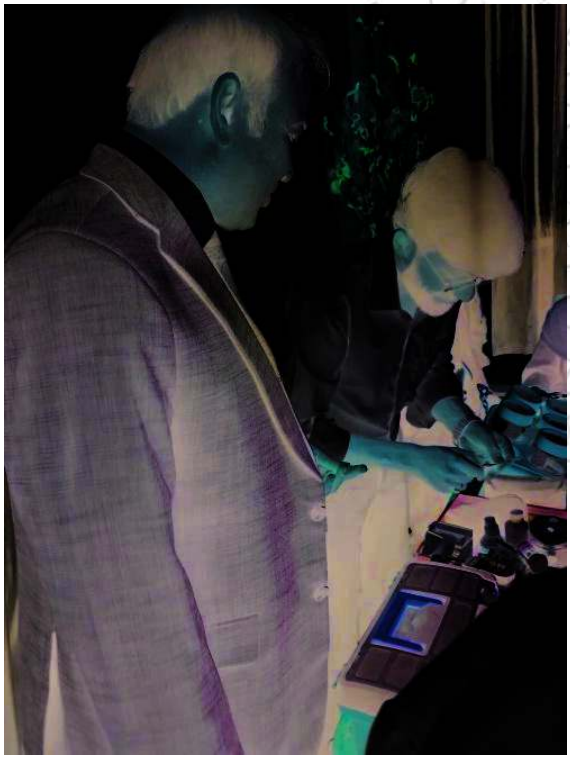






CHAPTER
16
MEDICAL AND HEALTH FACILITIES









Building Knowledge Based Economy Through Intellectual and Social Transformation

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