



MNS-University of Agriculture, Multan

ANNUAL REPORT

2024-25



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



MNS-University of Agriculture, Multan

ANNUAL REPORT 2024-25

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EXECUTIVE SUMMARY

Agriculture remains a cornerstone of Pakistan's economy, contributing significantly to GDP and exports. MNS-University of Agriculture is playing a pivotal role in strengthening this sector by connecting farmers with researchers, students with practitioners, academicians with industry, and the community with the greater cause of engagement, environmental stewardship and active citizenship. From its humble beginning to its current state as an expanded campus (with fully operational academic block, teaching labs, research farms, and well-equipped graduate labs block, hostel and sports facilities) to navigating the multifaceted challenges and upheavals, the University has consistently demonstrated resilience and commitment. This annual report reflects the journey of the past year, showcasing our milestones, challenges, and the unwavering dedication that drives our mission forward.

The first chapter highlights the academic endeavors of the University, including degree programs, faculties, departments, and notable achievements during the year. The B.Sc. Agro-Industrial Engineering Technology program achieved a key milestone as two consecutive batches (2020–24 and 2021–25) received accreditation from the National Technology Council (NTC). Similarly, the BBA Agribusiness program marked significant progress by securing an upgrade from Category-X to Category-W by the National Agriculture Education Accreditation Council (NAEAC). This recognition reflects the University's commitment to excellence in curriculum development, faculty strength, infrastructure, and student success. Further strengthening its academic portfolio, the University has launched a three-year Livestock Assistant Diploma in collaboration with Xinjiang Agricultural Vocational Technical College, China. In addition, international academic linkages have been further expanded, connecting the University with leading institutions worldwide and opening new avenues for collaborative teaching, research, and student exchange.

Research and Developmental activities including research projects, publications, workshops, seminars and conferences are discussed in the second chapter. During 2024-25, nine competitive research grants worth PKR 78.88 million have been won by the faculty from various national/international funding agencies, industry/private sector and NAVTTC. The research projects worth PKR 78.88 million from national funding agencies, PKR 16.33 million from the industry/private sector and PKR 13.80 million from NAVTTC were awarded to the faculty for the proliferation of a scientific culture and innovative research. The execution of 28 ongoing research projects worth PKR 326.98 million is in progress. The research activities of 4 international projects (PKR 88.16 million), 24 national projects (PKR 238.81 million) and 16 industry/private sector projects (PKR 101.32 million) are being undertaken by the faculty. Moreover, ORIC has also facilitated the faculty for the successful completion of 09 research projects worth PKR 72.45 million and 10 Industry funded projects of worth PKR 27.94 million. These achievements reflect the University's growing research capacity, strong industry linkages, and commitment to fostering a scientific culture and innovative solutions to address national and global challenges. The availability of a conducive research and working environment enabled the faculty to publish 261 research articles in well-reputed national and international peer-reviewed journals and contributed as authors of 80 chapters in the books published by internationally recognized publishers. ORIC strived to secure revenue of PKR 55.32 million including events sponsorships (PKR 45.89 million), consultancy services (PKR 0.99 million), university overhead from research grants (PKR 8.28 million) and lab analytical services (PKR 0.16 million). Similarly, ORIC has extended support to teaching departments in organizing four national and international conferences, seven student's poster/plant centric meal/dish making and business competitions, and 17 national and international Seminars/Webinars. The capacity building and mentoring activities including 23 faculty trainings/workshops and six trainings of students/researchers under the Central Lab System were carried out. Other 35 outreach, recreational and civic engagement events including Mango Festivals at Islamabad,



Multan and Lahore, AFS Venture Spark, farmer advisory and industry consultancy activities were organized for the benefit of the agroindustry, the community, and relevant stakeholders.

Chapter three highlights the University's unwavering commitment to ensuring the quality of education and research. The Quality Enhancement Cell (QEC) plays a central role in this process, being mandated to foster quality teaching and research through continuous assessment and improvement. During the year, the QEC facilitated faculty engagement with students through multiple platforms and interactive sessions, strengthening the learning experience. Key initiatives included the annual technical review of TTS faculty, plagiarism checks, self-assessment of academic programs, and various capacity-building activities for both faculty and students. Teacher evaluation feedback was systematically collected from undergraduate and postgraduate students, ensuring that instructional quality remains evidence-driven. Whether it involved capacity building, program accreditation, curriculum development for Outcome-Based Education (OBE), or the adoption of Hybrid/Blended Learning, the QEC consistently played an active role in advancing academic excellence at the University.

The fourth chapter encompasses details of faculty development trainings/workshops to nurture their teaching, research, and leadership skills. During 2024-25, faculty members benefited from 90 faculty/staff trainings/workshops, 15 pre-service and in-service faculty members were endowed with the facility of faculty development programs (both foreign and local MS/PhD) this year.

Chapter five elaborates quick facts about discipline-wise and gender-wise student enrollment etc. Basic enrollment during 2024-25 was 1603 with 1071 male and 532 female students, respectively. The maximum enrollment of 234, 229 and 228 and 160 students was observed in BS Computer Science; B.Sc. (Hons.) Agriculture; BS Information Technology; and Livestock Assistant Diploma, respectively. Furthermore, 214 students were enrolled in M.Sc. programs, and 25 scholars started pursuing doctorate degrees. The total number of faculty reached to 141, out of which 97 possess doctorate degrees.

Chapter six (Universities Building Economies) contains information about promotion of entrepreneurship, innovation, and applied research, liaisons developed by the University with local and foreign institutions/organizations. Consultancy activities executed through ORIC with Industry, Commerce or Government and patents filed are discussed in detail.

Strengthening of physical infrastructure plays a vital role in the development of any educational institute. On the other hand, strengthening of technological infrastructure is also essential as it brings new opportunities and advanced means for improving access and quality of higher education. Chapter seven provides the information regarding the developmental projects initiated by the University at main campus and Jalalpur Pirwala Experimental Farm and success stories in this regard. University has come a long way from its humble suburban beginning to its current state and its planned expansion to a new state of the art campus. Construction of National Crop Genomics and Speed Breeding Center, Female Hostel, and Sports Gymnasium is underway. Next chapter provides details of ICT infrastructure and automation services including computer labs, multimedia classrooms, digital library, PERN services, video conferencing facilities, wireless LAN, biometric attendance system, cyber security and various online systems of the Varsity. New video conference rooms are fully equipped and functional.

Chapter nine is about "University Building Communities" that reveals information about the farming and scientific community service-oriented activities, which the Varsity considers as its obligation. University



has an active policy of public service and vigorously engages the community in all its academic and non-academic activities. Community centric events and activities and details on short courses offered are presented in this chapter.

Beyond academics, the University places strong emphasis on sports and co-curricular activities to foster well-rounded student development. Chapter ten highlights the sports events organized and participated in during 2024–25, while Chapter eleven, “Universities Building Leadership”, showcases achievements, success stories, and activities of Student Societies and Clubs under the Directorate of Students’ Affairs, aimed at cultivating leadership skills. This chapter also covers the initiatives of the Career Development Center and Placement Bureau in guiding and counseling students for their professional growth. Chapter twelve presents the University’s financial performance, including development and non-development budgets, whereas Chapter thirteen provides an overview of governance, featuring meetings of statutory bodies held during 2024-25.

Chapter fourteen tells about Office of Resource Generation and Development, its initiatives and future plans. Information regarding scholarship programs is also part of this Chapter. During 2024-25, an amount of 87.72 million rupees was distributed by Financial Aid Office of MNSUAM among 1836 students of undergraduate and postgraduate programs for financial support.

Chapter fifteen entitled “External Linkages” specifies the MoUs/agreements signed between MNSUAM and national/international institutions/organizations for promoting R&D activities through external collaboration. During 2024-25, the Directorate of External Linkages at MNSUAM signed a total of 13 Agreements of Cooperation (AoCs), Memorandums of Understanding (MoUs), and Memorandums of Cooperation (MoCs). This includes 3 agreements with international organizations and 10 agreements with national public and private sector organizations.

The University recognizes the importance of health education for building students’ knowledge, skills, and positive attitudes toward physical, mental, emotional, and social well-being. Chapter sixteen outlines the University’s initiatives to promote health awareness and ensure healthcare support for both students and staff. Available facilities include free ambulance service, routine medical check-ups, and first-aid provisions for students and employees on campus. These efforts reflect the University’s commitment to fostering a healthy and supportive academic environment.



MULLTAN: 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 2,106,000. It is considered to be one of the oldest cities of Pakistan and its history 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 flag 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 influx 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 Nishtar Hospital, which was extended to Nishtar Medical College and later upgraded as Nishtar 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.







Muhammad Nawaz Shareef University of Agriculture

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 qualified 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 offices 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 qualified 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 its 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



Academic Activities



Academic Activities



Academic Activities





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 research programs in agriculture and allied sciences. 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. During the short span of its existence, the University has escalated its existing academic programs while offering several new degree programs to provide multidisciplinary education to the students with innovative approaches. We relentlessly strive for excellence in all aspects of education, use of modern techniques and embracing relevant innovations, exceptional campus environment, student and community services. University is progressing well in the blended education system. We have put our students' education and experience at the heart of our decision-making. To meet the modern pedagogical standards, we are progressing well in the blended learning system and citizenship education. 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
 - Institute of Plant Breeding and Biotechnology
 - ✓ Biotechnology
 - ✓ Plant Breeding and Genetics
 - ✓ Seed Science and Technology
 - Institute of Plant Protection
 - ✓ Entomology
 - ✓ Plant Pathology
- Faculty of Agricultural and Bio-Systems Engineering and Technology
 - Department of Agricultural Engineering
- Faculty of Social Sciences and Humanities
 - Department of Agribusiness and Applied Economics
 - Others Supporting Departments
 - ✓ Department of Agricultural Extension
 - ✓ Department of English
 - ✓ Department of Islamic Studies
 - ✓ Department of Outreach and Continuing Education
 - ✓ Department of Statistics
 - Institute of Agribusiness and Entrepreneurship
 - Center for Agricultural Sustainability in South Punjab
- Faculty of Sciences



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

- Faculty of Veterinary and Animal Sciences
 - Department of Anatomy
 - Department of Animal Feed and Production
 - Department of Biochemistry and Biotechnology
 - Department of Clinical Sciences
 - Department of Fisheries and Aquaculture
 - Department of Pathobiology
 - Department of Pharmacology and Physiology
 - Department of Poultry Sciences

- Institute of Computing
 - Department of Computer Science
 - Department of Information Technology
 - Department of AI and Data Science

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 on reserved seats only	
2	B.Sc. (Hons.) Environmental Science	Intermediate Science (Pre-Medical/ Pre-Engineering)/ or Equivalent qualification	
3	BBA Agribusiness	Intermediate	
4	B.Sc. (Hons.) Agricultural and Resource Economics	Intermediate Science (Pre-Medical/Pre-Engineering) or ICS with Economics or I.COM /A-Level	

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5	BS Computer Science / BS Data Science / BS Information Technology	Intermediate/12 years schooling/A/Level (HSSC) or Equivalent with Mathematics is required for admission in all undergraduate computing programs. An equivalency certificate by IBCC will be required in case of education from some other country or system. Intermediate (Pre-Medical) / A-level students (with Biology) students are eligible for admission in computing programs. However, they must have to take deficiency courses of Mathematics of 6 credit hours within one year of their regular studies. DAE (specialized in electrical, mechanical, electronics, and Telecommunication/IT) (two (02) reserved seats only).	
6	BS Sociology	Intermediate	
7	B.Sc. (Hons.) Home Economics	F.Sc. Pre-Medical/ Pre Engineering/ FA Home Economics/A-Level	
8	B.Sc. Agro-Industrial Engineering Technology	F.Sc. (Pre-Engineering, Pre-Medical, Pre-Agriculture)/ICS/A-Level/DAE (Three Years)	
9	BS Poultry Science	F.Sc. (Pre-medical) Candidates having F.Sc. Pre -Engineering with 50 % marks will be eligible subject to study deficiency course in Biology BIO-301, 3(2-1) (Essentials of Biology) Candidates having F.Sc. Pre -Agriculture with 50 % marks will be eligible subject to study deficiency course in Biology BIO-301, 3(2-1) (Essentials of Biology)	Minimum 50% of total mark
10	B.Sc. (Hons.) Animal Science	A candidate must have passed F. Sc. (Pre-Medical) or standard equivalent examination with at least 50% marks from University or Boards with Physics, Chemistry, Biology. Candidates having F.Sc. Pre-engineering and FSC Pre-Agriculture degree are eligible for admission subject to qualify the deficiency course in Biology: Essentials of Biology BIO-301, 3(2-1).	
11	BS Microbiology	Intermediate science (Pre-medical) or Equivalent with 50% marks	
12	BS Zoology	F.Sc. (Pre -Medical) or Equivalent with 50% marks	
13	BS Biochemistry	F.Sc. (Pre -Medical) or Equivalent with 50% marks	
14	BS MLT	F.Sc. (Pre -Medical) or Equivalent with 50% marks	
15	BS Public Health	FA/F.Sc. (Pre-Medical) Pre-Engineering) or Equivalent with 50% marks	
16	BS Biotechnology	F.Sc. (Pre -Medical) or Equivalent with 50% marks	
17	B.Sc. (Hons.) Human Nutrition	Intermediate science (Pre-medical), A-Level	Minimum 60% of total marks



1.2.2. Postgraduate

Degree/ Discipline	Program	Duration (Semester)		Eligibility Criteria
		Minimum	Maximum	
M.Sc. (Hons.) Agronomy, Entomology Horticulture, Human Nutrition and Dietetics, Food Science and Technology, Postharvest Management Technology, Plant Breeding and Genetics, Plant Pathology, Soil Science, Weed Science	Regular	4	6	<ul style="list-style-type: none"> • B.Sc. (Hons.) Agri. with major in relevant field of study from any HEC recognized university / DAIs. • At least Second Division or CGPA not less than 2.50 / 4.00. • Qualified Entry Test
Master of Science (Hons.) Agriculture Economics	Regular	4	6	<ul style="list-style-type: none"> • B.Sc. (Hons.) Agricultural Economics / B.Sc. (Hons.) Agriculture and Resource Economics / BBA Agribusiness / BS Agribusiness and Marketing • At least Second Division or CGPA not less than 2.50 / 4.00 • Qualified Entry Test
M.Sc. (Hons.) Seed Science and Technology	Regular	4	6	<ul style="list-style-type: none"> • 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/CGPA not less than 2.50 / 4.00. • Qualified Entry Test

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Master of Science (MS) Zoology	Regular	4	6	<ul style="list-style-type: none"> A candidate must have BS/BSc (Hons) or equivalent degree with minimum CGPA 2.50/4.00 2nd Division. Qualified Entry Test
Master of Science (Hons.) Biotechnology	Regular	4	6	<ul style="list-style-type: none"> 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 or CGPA not less than 2.50 / 4.00.
M.Sc. (Hons.) Climate Change	Regular	4	6	<ul style="list-style-type: none"> 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 with minimum CGPA: 2.50/4.00 or at least 2nd division. (Deficiency courses will be offered to the admitted students on the recommendation of the department if required) Qualified Entry Test
Master of Science (Hons.) Agricultural Extension	Regular	4	6	<ul style="list-style-type: none"> A minimum CGPA of 2.50 out of 4.0 in semester system with 4 years Bachelor B.Sc. (Hons) Agriculture Extension or any major of Agriculture. Student having B.Sc. (Hons) Agriculture other than Agricultural Extension major will have enroll

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Master of Science (Hons.) Agro-Industrial Engineering Technology	Regular	4	6	<p>deficiency courses as per recommendation of supervisory committee with approval of BoS.</p> <ul style="list-style-type: none"> • Qualified Entry Test • Four years 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. • Minimum CGPA of 2.50 out of 4.0 in four-year bachelor's degree programs. Students from the annual system must have a minimum score of 60%. The percentage score will be considered only if the CGPA is not recorded/mentioned on the transcript • Qualified Entry Test
Master of Science (Hons.) Energy System Engineering	Regular	4	6	<ul style="list-style-type: none"> • Eligibility Criteria for Master of Science (Hons.) Energy Systems Engineering • Entry/Admission Requirement • All four year Engineering Programs accredited by Pakistan Engineering Council • Minimum CGPA of 2.50 out of 4.00 and Student from annual system have minimum score of 60% • Qualified Entry Test
Master of Science (Hons.) Agricultural Engineering	Regular	4	6	<ul style="list-style-type: none"> • Four years bachelor's degree in Agricultural/Civil/Mechanical/ Water Resource Engineering from HEC recognized University/ Institute. • Minimum CGPA of 2.50 out of 4.0

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in bachelor's degree programs. Student from annual system must have minimum score of 60%. The percentage score will be considered only if the CGPA is not recorded/mentioned on the transcript.

Master of Science (MS) Computer Science	Regular	4	6	<ul style="list-style-type: none"> • Qualified Entry Test • BS (CS) 4-Years Degree Program (minimum 130 credit hours), or Computer Science Conversion Course 2 Years Degree Program referred to as "MCS" or M.Sc. (Computer Science). • BCS 3-Years Degree Program- Student will be required to complete the deficiency of difference of total earned credit hours and 130 credit hours. • 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 are also eligible but have to qualify deficiency course(s). Deficiency courses will be offered to admit students by the departmental committee in the light of HEC guidelines. • All degrees should be from HEC recognized Universities/DAIs. • At least Second Division/CGPA not less than 2.50 / 4.00. • Qualified Entry Test
MS Management (Specialization in Agribusiness)	Regular	4	6	<ul style="list-style-type: none"> • BBA (Agribusiness)/B.Sc. (Hons.) Agricultural Economics / Agricultural and Resource Economics, Marketing and Agribusiness Major. (Four years



- degree programs)
- MBA (Agri. Business) (two years degree program)
- 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 (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/CGPA not less than 2.50 / 4.00.
- Qualified Entry Test

Master of Science (MS) Poultry Science	Regular	4	6	<ul style="list-style-type: none"> • B.Sc. (Hons.)/ BS Poultry Science, B.Sc. (Hons.) Agriculture Sciences with Animal Sciences as major subject, B.Sc. (Hons.) Animal Sciences or DVM (registered with veterinary council) with 2.5/4.00 CGPA or 2nd Division • Qualified Entry Test
Master of Science (MS) Fisheries and Aquaculture	Regular	4	6	<ul style="list-style-type: none"> • A candidate must have BS /B.Sc. (Hons.)/ M.Sc. Zoology, Marine Sciences, Applied Microbiology, Biotechnology, B.Sc. (Hons) Animal Sciences, DVM (registered with veterinary council) or *equivalent degree with minimum CGPA 2.5/4.00. or 2nd Division • Qualified Entry Test • Equivalence status will be determined by the department.
Master of Science (MS) Public Health	Regular	4	6	<ul style="list-style-type: none"> • DVM (registered with veterinary council), BSc (Hons)/ BS in Animal Sciences/Human Nutrition and

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Dietetics/ Food Technology/
Microbiology/Biochemistry/ Zoology
or equivalent degree with 2.5/4.00
CGPA

- MBBS/BDS (registered with PMDC)-
(16 years) BS/B.Sc. (16-years) in
Nursing, Pharm-D or *equivalent
(Registered with Pharmacy Council)
- B.Sc. Paramedic (4-Yrs), BS
Physiotherapy or equivalent.
- At least Second Division/CGPA not
less than 2.50 / 4.00.
- Qualified Entry Test
- Equivalence status will be
determined by the department

Doctor of Philosophy (Ph.D.) Agronomy, Entomology, Horticulture Food Science and Technology, Plant Breeding and Genetics, Plant Pathology, Soil Science, Human Nutrition and Dietetics, Agriculture Economics, Biotechnology, Zoology, Seed Science and Technology	Regular	6	10	<ul style="list-style-type: none"> • M.Sc. (Hons.) / M.Phil. / MS (18 years of education) in relevant subject from HEC recognized Universities/DAIs. • First Division/CGPA not less than 3.0/4.0 • Qualified Entry Test/Subject GRE • A Research proposal.
Doctor of Philosophy (Ph.D.) Computer Science	Regular	6	10	<ul style="list-style-type: none"> • To be eligible for admission in PhD, a candidate shall possess MS/M-Phil degree in (Computer Science, Information Technology, Software Engineering Data Science, Information Security, Artificial Intelligence. Computer & Information System and Engineering) subject from recognized universities/DAIs. • Minimum CGPA of 3.00/4.00 in Semester System and 70% in Annual System. • Qualified Entry Test/Subject GRE • A Research proposal



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 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:

- a) Postgraduate research skills development
- b) Scientific/community seminars
- c) Leadership and interpersonal skills development
- d) 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 2024-2025 was rightly utilized by GRC to develop the postgraduates' skills and to make them able to cope with current scientific scenario and providing them effective systems and leadership for professional learning. More than 2000 persons attended the sessions across the year. GRC also organized Graduate Research Day-2025 on May 21, 2025 in which 87 postgraduate students participated in research-based poster and video competition.



1.4.3. Activities of Graduate Resource Center

Ph.D. Thesis Defense/Synopsis Defense

Ph.D. Thesis defense	Title: Evaluation and Management of Cluster Bean (<i>Cyamopsis tetragonoloba</i> L.) Genotypes Under Salt Conditions Name: Mr. Shahzad Ahmad Junaid (2017-uam-917) Department of Agronomy, MNSUAM	03-06-2024
Ph. D. Synopsis defense	Title: Multi-omic integration of Polyacrylamide treated tomato under water deficit Name: Ms. Sawera Rehman Department of Horticulture, MNSUAM	24-06-2024
Ph.D. Synopsis Defense	Title: Exploring the potential of <i>Moringa oleifera</i> to enhance infant nutrition Name: Ms. Rimsha Umar Department of Food Science and Technology	28-06-2024
Ph.D. Synopsis Defense	Title: Extraction and application of Bitter Apple's cucurbitacin to combat diabetes Name: Ms. Noshaba Fiaz Department of Food Science and Technology	28-06-2024
Ph.D. Thesis defense	Title: Diversity and distribution of immature mosquitoes in various breeding sites of South Punjab Name: Ms. Shafia Saba Institute of Plant Protection, MNSUAM	01-08-2024
Ph.D. Thesis defense	Title: Nanoparticles impregnated biopesticides synergetic action against whitefly (<i>Bemisia tabaci</i> Genn.) Name: Mr. Muhammad Shahid Institute of Plant Protection, MNSUAM	08-08-2024
Ph.D. Thesis defense	Title: Standardizing soilless potting media for commercial mango (<i>Mangifera indica</i> L.) nursery production Name: Mr. Muhammad Shahzad Zafar Department of Horticulture, MNSUAM	21-08-2024
Ph.D. Pre Thesis defense	Topic: Shelf Stability of Dehydrated Mango Slices Name: Mr. Khizar Hayat Department of food science and technology, MNSUAM	22-08-2024
Ph.D. Thesis defense	Topic: Bio-pesticides as an ecofriendly management of Whitefly, <i>Bemisia tabaci</i> Mitotype Asia II-1 Speaker: Mr. Owais Hameed Institute of Plant Protection, MNSUAMs	05-09-2024
Ph.D. Synopsis Defense	Title: Coat-Protein gene mediated resistance in <i>Nicotiana benthamiana</i> against turnip mosaic virus Name: Mr. M Sarmad Fawaz (2021-uam-2812) Institute of Plant Protection, MNSUAM	04-10-2024
Ph.D. Thesis defense	Title: Agronomic biofortification of tomato for enhance nutrition and productivity Name: Mr. Nabeel Ahmad Ikram Department of Agronomy, MNSUAM	10-10-2024

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Ph.D. Thesis defense	Title: Insecticidal resistance in mitotypes of <i>Bemisia tabaci</i> and role of natural enemies for its management in cotton Name: Rao Muhammad Shamraiz (2018-uam-905) Institute of plant protection, MNSUAM	11-10-2024
Ph.D. Synopsis Defense	Title: Phenotypic and Genotypic Approaches to Reveal Gene(s) Associated with Wheat Leaf Rust Resistance Name: Ms. Sania Javeed (2017-uam-317) Institute of Plant Protection, MNSUAM	16-10-2024
Ph.D. Synopsis Defense	Title: Improving Bio-inoculant Formulation for Sustainable Chickpea Production on Challenging Soils Name: Mr. Javed Iqbal (2023-uam-3712) Department of Soil and Environmental Sciences, MNSUAM	13-11-2024
Ph.D. Thesis defense	Title: Genetic diversity of sea-buckthorn and wheat for iron, zinc, vitamin c, and water use efficiency Name: Ms. Sadia Hakeem Institute of Plant Breeding and Biotechnology, MNSUAM	14-11-2024
Ph.D. Thesis defense	Title: Entomotoxic potential of Nanoparticles for ecofriendly management of <i>Oxycarenus</i> spp Name: Mr. Muhammad Javaid (2018-uam-907) Institute of Plant Protection, MNSUAM	15-11-2024
Ph.D. Synopsis Defense	Title: Suppression of Cotton Leaf Curl Virus by NP-mediated CRISPR-RNPs Delivery via Foliar Spray Name: Ms. Saba Yaseen Institute of Plant Breeding and Biotechnology, MNSUAM	18-11-2024
Revised Ph.D. Synopsis Defense	Title: Functional genomics analysis of HD-ZIP I and IV subfamilies for drought tolerance in soybean Name: Ms. Sidra Jameel (2019-uam-3701) Institute of Plant Breeding and Biotechnology, MNSUAM	21-11-2024
Ph.D. Synopsis Defense	Title: Development of Bio organomineral phosphatic fertilizers to improve phosphorus use efficiency and maize production Name: Ms. Beenish Butt (2022-uam-3706) Department of soil and environmental science, MNSUAM	22-11-2024
Ph.D. Synopsis Defense	Title: Assessment of Different Soil Series for the Best Citrus Production: Characterization of Physicochemical Properties and Micronutrients, District Sargodha, Punjab Name: Ms. Tahsin Fatimah (2022-uam-3705) Department of Soil and Environmental Science, MNSUAM	26-11-2024
Ph.D. Synopsis	Title: Farmer's perception and adaptation strategies apropos climate change: Impact and implications on small ruminants in Balochistan,	04-12-2024



Defense	Pakistan Name: Mr. Wakeel Ur Rehman (2019-uam-2709) Department of Agriculture and resource economics, MNSUAM	
Ph.D. Thesis defense	Title: Evaluation and Management of <i>Pectinophora gossypiella</i> S. resistance to Bt Cotton Name: Ms. Mahreen Hanif (2012-uam-80) Institute of Plant Protection, MNSUAM	11-12-2024
Ph.D. Synopsis Defense	Title: Lethal and sub-lethal effects of pesticides and their combinations on honey bee (<i>Apis mellifera</i> :Apidae) Name: Ms. Syeda Fatima Bukhari (2014-uam-249) Institute of Plant protection, MNSUAM	16-12-2024
Ph.D. Synopsis Defense	Title: Effect of urbanization on diversity of insect pollinators in Multan, Pakistan Name: Saba Haider (2021-uam-2789) Institute of Plant protection, MNSUAM	17-12-2024
Ph.D. Synopsis Defense	Title: Spatio-temporal distribution and ecofriendly management of <i>Bactrocera zonata</i> Name: Mr. Umer Sharif (2017-uam-348) Institute of Plant protection, MNSUAM	19-12-2024
Ph.D. Synopsis Defense	Title: Impact of urbanization on total factor productivity and food insecurity Name: Mr. Azhar Iqbal (2022-uam-3715) Department of Agriculture and Resource Economics, MNSUAM	07-01-2025
Ph.D. Synopsis	Title: Farmer's perception and adaptation strategies regarding climate change and its impact on livestock in Balochistan Name: Mr. Wakeel Ur Rehman (2019-uam-2709) Department of Agriculture and Resource Economics, MNSUAM	07-01-2025
Ph.D. Synopsis Defense	Title: Postharvest oxidative stress management of strawberry (<i>Fragaria x ananassa</i> cv. Chandler) fruit by exogenous organic acid application. Name: Ms. Shafa Nayab (2013-uam-02) Department of Horticulture, MNSUAM	08-01-2025
Ph.D. Synopsis Defense	Title: Impact of Microbial bio stimulants on Chilli wilt suppression and plant physiology Name: Ms. Iqra Javed (2017-uam-384) Institute of Plant Protection, MNSUAM	10-01-2025
Ph.D. Synopsis Defense	Title: Molecular Epidemiology of <i>Fusarium</i> spp. infecting cotton in southern Punjab Name: Mr. Haider Ali (2017-uam-112) Institute of Plant Protection, MNSUAM	13-01-2025

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Ph.D. Pre- Thesis Defense	Title: Role of potassium in productivity and quality of capsicum under soilless cultivation systems in partially controlled greenhouse Name: Mr. Ali Asad Bahar (2017-uam-93) Department of Horticulture, MNSUAM	14-01-2025
Ph.D. Pre- Thesis Defense	Title: Functional genomics analysis of HD-ZIP I and IV subfamilies for drought tolerance in soybean. Name: Ms. Sidra Jameel (2019-uam-3701) Institute of Plant Breeding and Biotechnology, MNSUAM	20-01-2025
Ph.D. Synopsis Defense	Title: Isolation and Food Application of Indigenous Microalgae Name: Ramsha Akram Department of Food Science and Technology, MNSUAM	21-01-2025
Ph.D. Synopsis Defense	Title: Approaches to Enhance Biocontrol Efficiency of Minute Pirate Bug (<i>Orius spp.</i>) in South Punjab, Pakistan Name: Mr. Umair Faheem (2023-uam-3709) Institute of Plant Protection, MNSUAM	23-01-2025
Ph.D. Synopsis Defense	Title: Eco-Friendly management of <i>Bactrocera cucurbitae</i> : A holistic approach to population dynamics, diet optimization, and biocontrol strategies Name: Mr. Hasan Taha (2021-uam-2782) Institute of Plant Protection, MNSUAM	28-01-2025
Ph.D. Pre- Thesis Defense	Title: Hypolipidemic potential and food application of olive oil Name: Ms. Aliza Batool Department of Food Science and Technology, MNSUAM	29-01-2025
Revised Ph.D. Synopsis Defense	Title: Impact of urbanization on total factor productivity and food insecurity Name: Mr. Azhar Iqbal (2022-uam-3715) Department of Agriculture and Resource Economics, MNSUAM	30-01-2025
Ph.D. Thesis Defense	Title: Genetic basis of heat tolerance and characterization of BAG gene family in maize Name: Mr. Babar Farid (2017-uam-925) Institute of Plant Breeding and Biotechnology, MNSUAM	06-02-2025
Ph.D. Synopsis Defense	Title: Comparison of quality, body composition microbial and heavy metals load in edible freshwater species (<i>Labeo rohita</i> and <i>Catla catla</i>) from southern Punjab, Pakistan Name: Mr. Asher Azeem (2023-uam-3718) Department of Zoology, Wildlife & Fisheries, MNSUAM	14-02-2025
Ph.D. Thesis Defense	Title: Integrating biochemical and genomics resources for drought tolerance in cotton (<i>Gossypium hirsutum</i> L.) Name: Mr. M Kashif Shahzad Sarwar Institute of Plant Breeding and Biotechnology, MNSUAM	4-03-2025
Ph.D. Thesis Defense	Title: Optimizing Phosphorus, Zinc and Soil Amendments to Minimize Cadmium Accumulation in Maize Crop Name: Mr. Ghulam Farid (Registration No. 2017-UAM-916) Department of Soil and Environmental Sciences, MNSUAM	13-03-2025

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Ph.D. Thesis Defense	Title: Agronomic biofortification of selenium and interrelation with nitrogen metabolism in wheat (<i>Triticum aestivum</i> L.) Name: Mr. Muhammad Shoab Ismail (Registration No. 2018-uam-1011) Department of Agronomy, MNSUAM	27-03-2025
Ph.D. Thesis Defense	Title: Organic sources for nutrition management in tomato production Name: Mr. Rashid Mukhtar (Reg. No. 2018-uam-913) Department of Soil and Environmental Sciences, MNSUAM	21-04-2025
Ph.D. Thesis Defense	Title: Effect of tillage and organic amendments on soil health and productivity of cotton wheat productivity system Name: M. Waleed Iqbal (Regd. No. 2018-uam-1012) Department of Agronomy, MNSUAM	14-05-2025
Ph.D. Thesis Defense	Title: Development and quality evaluation of nutrient enriched biscuits to address malnutrition among children Name: Shahid Mubeen Sarwar (Regd.No.2022-uam-3709) Department of Food Science and Technology, MNSUAM	16-05-2025
Ph.D. Thesis Defense	Title: Envirotyping of Cotton (<i>Gossypium hirsutum</i> L.) germplasm under drought and heat conditions Name: Mr. Furqan Ahmad (Regd.No.2017-uam-907) Institute of Plant Breeding and Biotechnology, MNSUAM	23-05-2025
Ph.D. Thesis Defense	Title: Inducing heat tolerance in maize by seed inoculation with beneficial bacteria and silicon under changing climate. Name: Mr. Ijaz Hussain (Regd.No.2021-uam-3702) Department of Agronomy, MNSUAM	29-05-2025
Ph.D. Thesis Defense	Title: Formulation and evaluation of biofertilizer with PSB to improve phosphorus nutrition in maize Name: Ms. Marina Qayyum (2014-uam-151) Department of Soil and Environmental Sciences, MNSUAM	12-06-2025
Ph.D. Synopsis Defense	Topic: Green synthesis of mango peel essential oil nanocomposites as functional ingredients in food Name: Ms. Mahreen Riaz (2023-uam-3710) Department of Food Science and Technology, MNSUAM	13-06-2025
Ph.D. Synopsis Defense	Title: Commercialization sustainability and well-being evaluating cluster farming in Punjab Name: Mr. Farrukh Shahzad (2022-uam-3714) Department of Agriculture and Resource Economics, MNSUAM	18-06-2025
Ph.D. Thesis Defense	Title: Microbial management of fungus growing termites: <i>Odentotermes</i> spp Name: Ms. Hafiza Tahira Gul (Regd.No.2017-uam-921) Institute of Plant Protection, MNSUAM	27-06-2025
Ph.D. Synopsis Defense	Title: Enhancing livestock management and knowledge transfer through LLM-based farmer advisory framework Name: Mr. Muhammad Atif Noor (Reg. No. 2023-UAM-3706) Institute of Computing, MNSUAM	15-07-2025



Scholarship Awareness

Webinar	Title: Scholarship for Master's and Ph.D. studies and visa process Speaker: Dr. Muhammad Nadir Naqqash Assistant Professor, Institute of Plant Protection, MNSUAM.	26-06-2024
Webinar	Title: UGrad Exchange Program 2025 application process Speaker: Dr. Muhammad Zaigham Abbas Shah Syed (Assistant Professor in the Department of Electronic Engineering at Mehran University of Engineering and Technology, Jamshoro) Speaker: Dr. Fawad Zafar Ahmad Khan Assistant Professor, Department of Outreach & Continuing Education, MNSUAM	04-09-2024
Webinar	Title: Basic guidelines for Chinese Government Scholarship Speaker: Mr. Babar Farid Lecturer Institute of Plant Breeding and Biotechnology, MNSUAM	18-12-2024

Seminar/Webinars (International)

Webinar	Title: Planning and navigating research ethics for working with living objects Speaker: Dr. Sarah Holz Humboldt University Berlin, Germany	21-08-2024
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Seminar/Webinars (National)

Webinar	Topic: HEC Digital Library for our postgraduate student Speaker: Ms. Rubina Ahmed Librarian, MNSUAM	24-07-2024
Webinar	Topic: Emerging Sources Citation Index vs Science Citation Index Expanded Speaker: Dr. Shoaib Ur Rehman Assistant Professor in Institute of Plant Breeding and Biotechnology, MNSUAM	09-10-2024
Webinar	Topic: Springer Journal Suggester Speaker: Dr. Shoaib Ur Rehman Assistant Professor in Institute of Plant Breeding and Biotechnology, MNSUAM	23-10-2024
Seminar	Topic: Effective Presentation Skills Speaker: Prof. Dr. Muhammad Hammad Nadeem Tahir Director, Institute of Plant Breeding and Biotechnology, MNSUAM	27-11-2024
Webinar	Topic: Research smartly with AI tools: Search to Citation Speaker: Dr. Maryam Ibrar (Resource Person PASTIC) Central Library and PASTIC	12-02-2025
Webinar	Topic: Invasive Alien Species Speaker: Dr. Unsar Naeem Ullah Assistant Professor in Institute of Plant Protection, MNSUAM	12-03-2025

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Webinar	Topic: HEC Digital Library: Accessing Scholarly Journals, eBooks, and Databases For faculty members and postgraduate students Speaker: Dr. Khalid Mahmood Sanghera Librarian, Quaid-e-Azam Academy for Educational Development, Rangeelpur Multan, President, Pakistan Library Association Punjab	26-03-2025
Webinar	Topic: Unlocking Research Potential: Exploring HEC Digital Databases for Evidence-Based Research Speaker: Ferhana Saeed Hashmi (PhD in Information Management) Lecturer Minhaj University Lahore	16-04-2025
Webinar	Topic: Introduction to Reference Management: A Basic Guide Speaker: Dr. Farrukh Baig Assistant Professor in Institute of Plant Protection, MNSUAM	30-04-2025
Webinar	Topic: Empowering Smarter Agricultural Decisions through WAPOR and Remote Sensing Insight Speaker: Mr. Muhammad Mohsin Khan Lecturer in the Department of Agricultural Engineering, MNSUAM	14-05-2025
Webinar/Seminar	Topic: Emerging Sources Citation Index vs Science Citation Index Expanded Speaker: Dr. Shoaib Ur Rehman Assistant Professor in Institute of Plant Breeding and Biotechnology, MNSUAM	16-07-2025

Awareness Sessions

Webinar	Topic: Prevention against workplace harassment Speaker: Dr. Plosha Khanum Institute of Plant Breeding and Biotechnology, MNSUAM	11-09-2024
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1.5. Academic Calendar (2024-25)

Sr. No.	Particulars/Activity	Date
A	Enrollment Winter Semester 2024-2025	02-09-2024 to 06-09-2024
1.	Commencement of Semester/Classes	02-09-2024
2.	Mid-Term Examination	04-11-2024
3.	Final Term Examination	06-01-2025
4	Termination of Semester (After completion of 20 weeks including examination)	17-01-2025
5	Break	18-01-2025 to 26-01-2025



B	Enrollment Spring Semester 2025	27-01-2025 to 31-01-2025
1.	Commencement of Semester/Classes	27-01-2025
2.	Mid-Term Examination	24-04-2025
3.	Final Term Examination	26-05-2025
4.	Termination of Semester (After completion of 20 weeks including examination)	13-06-2025
5	Break	14-06-2025 to 22-06-2025
C	Enrollment Summer Semester 2025	23-06-2025 to 27-06-2025
1.	Commencement of Semester/Classes	23-06-2025
2.	Mid-Term Examination	21-07-2025
3.	Final Term Examination	18-08-2025
4.	Termination of Semester (After completion of 09 weeks including examination)	22-08-2025
5	Break	23-08-2025 to 31-08-2025

1.6. Academic Achievements

- All ongoing postgraduate programs have attained NOC from HEC
- 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 statutory bodies after due deliberation.
- All ongoing B.Sc. (Hons.) Agriculture programs have been accredited by National Agriculture Education Accreditation Council (NAEAC)
- Initiation of online classes through Learning Management System, and video conferencing tools like Zoom and Google Meet for all courses in accordance with the “Online Preparedness Guidelines” of HEC and University’s SoPs.
- B.Sc. (Hons.) Agriculture-Major Horticulture degree program has been accredited by National Agriculture Education Accreditation Council (NAEAC) and awarded category “W3”.
- The PEC authorized zero-visit approval to launch the B.Sc. Agricultural Engineering program with an intake of 40 students.
- The National Technology Council (NTC) accredited two batches (2020–24 and 2021–25) of the B.Sc. Agro-Industrial Engineering Technology program.
- The BBA Agribusiness program achieved a significant milestone by securing re-accreditation and an upgrade from Category X to Category W by the National Agriculture Education Accreditation Council (NAEAC). This achievement reflects high standards in curriculum design, faculty competency, infrastructure, and student outcomes.
- The newly launched MBA and Executive MBA programs continued to evolve with updated course content, emphasizing experiential learning, sustainability, and market relevance especially dissertation are designed to be based on real problems faced by industry.



- The Ph.D in Agribusiness program has been formally drafted and is now undergoing final review and approval. This initiative marks a major step in strengthening the university's capacity for research-led teaching and thought leadership in agribusiness.
- Approval for revision of scheme of studies for B.Sc. (Hons.) Home Economic from Board of Studies, Board of Faculty and Academic Council.
- Following new undergraduate degree programs have been approved by the Academic Council:
 - ✓ BS Biotechnology
- Following Diploma Program has been launched by FVAS
 - ✓ Three year's Livestock Assistant Diploma is being offered in Collaboration with Xinjiang Agricultural Vocational Technical College (XAVTC), China
- The numbers of faculty members have been increased to 149 (102 Ph.D. and 47 Non Ph.D.).

1.7. Foreign Academic Linkages

1.7.1. Faculty of Agriculture and Environmental Sciences

- Institute of Plant Protection, Chinese Academy of Agricultural Sciences (CAAS), Beijing, China
- Institute of Microbiology, Chinese Academy of Sciences, China
- State Key Laboratory of Green Pesticide, Guizhou University, China
- Anhui Agricultural University, China
- South China Agricultural University, China
- Southwest University, Chongqing, China
- Huazhong Agricultural University, China
- King Faisal University, Saudi Arabia
- Taif University, Saudi Arabia
- Nigde Omer Halisdemir University, Türkiye
- Mersin University, Türkiye
- University of Tuscia, Italy
- Stockholm University, Sweden
- University of Georgia, USA
- Colorado State University, USA
- University of Florida, USA.
- Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh
- EMIA, Université Africaine des Sciences et Technologies, Senegal
- Scientific Research Institute of Rainfed Agriculture, Republic of Uzbekistan

1.7.2. Faculty of Social Sciences and Humanities

- Australian Center for International Agricultural Research
- Charles Sturt University, Australia
- Vrije Universiteit Amsterdam, Netherlands
- University of New England, Australia
- International Center for Biosaline Agriculture (ICBA), UAE
- Kirsehir Ahi Evran University, Türkiye
- Humboldt University Germany



1.7.3. Faculty of Agricultural, Biosystems Engineering and Technology

- Department of Agricultural Engineering, Russ College of Engineering and Technology, Ohio University, USA
- Agricultural Machinery and Technologies Department, Eastern Mediterranean Agricultural Research Institute Directorate, Doğankent. Yüreğir Adana- Türkiye

1.7.4. Faculty of Veterinary and Animal Sciences

- Xinjiang Agricultural Vocational Technical College, China

1.7.5. Faculty of Food and Home Sciences

- (NUTRICON) 2024 Seoul, South Korea

1.8. Institutional Linkages

- Agri-Tech Sol
- Al-Karam Farm Technologies
- Asia Feeds Multan
- Bulleh Shah Packaging (Pvt) Ltd
- BZU, Multan
- Concave Agri
- CropLife Pakistan Association
- Department of Plant Protection (DPP), Government of Pakistan
- Elhai Rice Mills
- Engro Fertilizers Ltd., Pakistan
- Faisla Group of Industries (Faisal Feed)
- Farmer Development Organization (FDO), Pakistan
- FMC, Pakistan
- HSC (Pvt.) Limited
- Infinity Engineering
- Islamic Relief Pakistan
- IUCN Pakistan,
- Khawaja Mineral Industries Multan
- Lahore University of Management Sciences
- Livestock and Dairy Development, Dept. South Punjab
- Mehran University of Engineering & Technology, Jamshoro,
- Memoranda of Understanding (MoUs) / Agreements of Collaboration (AoCs) signed:
- MESKAY & FEMTEE (Kubota)
- Ministry of Commerce
- National Entomological Research Centers
- Nice International Crop Excellence
- Patron Chemicals
- PCRWR,
- PHDEC
- PMAS-AAUR, Rawalpindi
- Research institutes such as AARI, NIAB, and NARC
- SAU, Tandojam
- Society of Facilitators and Trainers
- UAF, Faisalabad



1.9. Honors and Awards

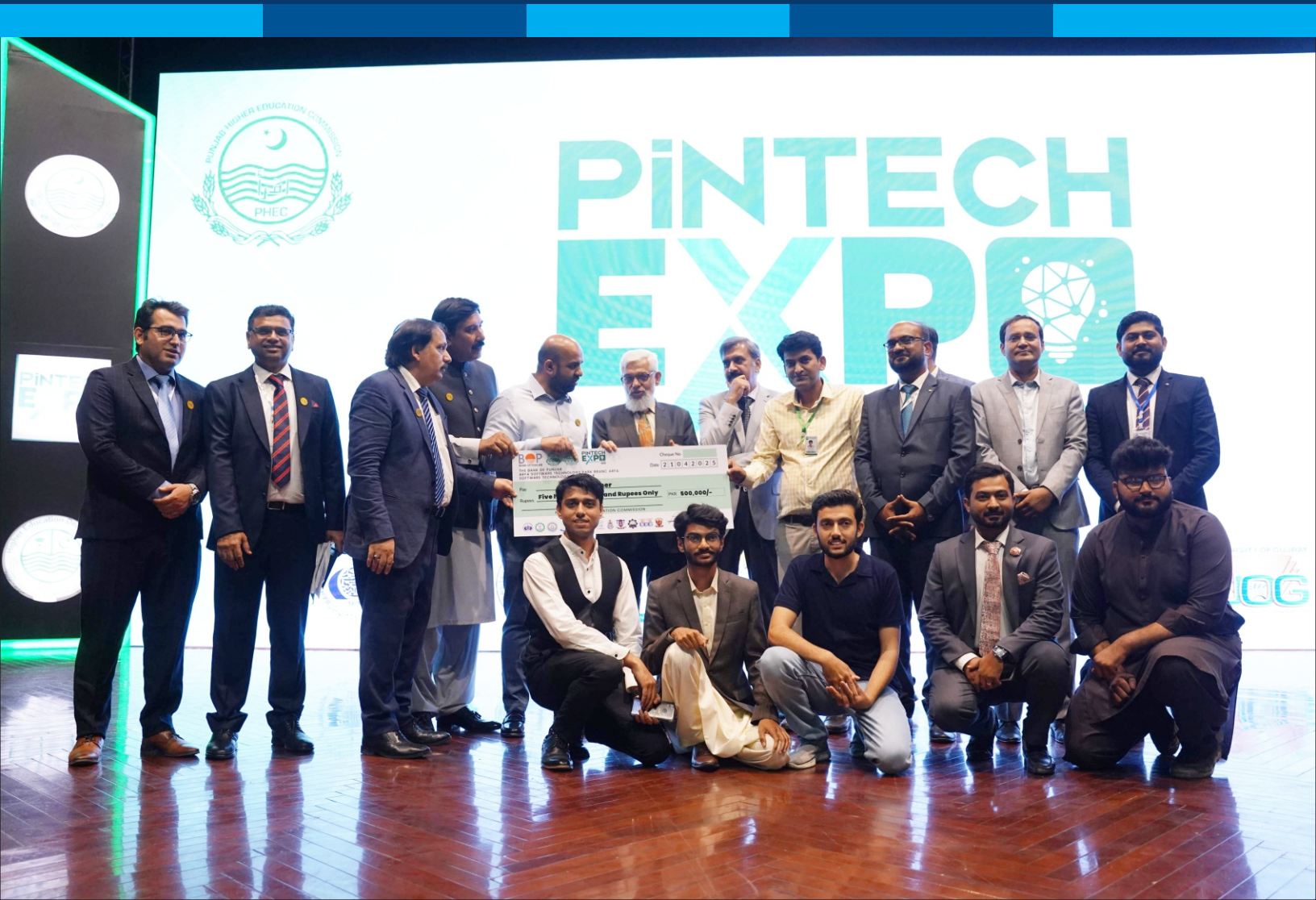
- Guest lecture at Eberswalde University of Sustainable Development, Germany on June 26, 2025 by Prof. Dr. Irfan Ahmad Baig.
- Dr. Mohkum Hammad from Department of Agronomy won Post-doctoral Fellowship from the University of Florida, USA.
- Dr. Mohsin Nawaz, Assistant Professor in Agricultural Engineering Department, won University Best paper award 2024.
- Dr. Umair Sultan, Assistant Professor in Agricultural Engineering Department won 1st Position in Punjab Innovation & Technology (PINTECH) Expo 2025 organized by Punjab Higher Education Commission (PHEC), in collaboration with the Higher Education Department (HED).
- Dr. Umair Sultan, Assistant Professor in Agricultural Engineering Department won 2nd Position in AFS Venture Spark 2024.

1.10. Good Practices Implemented

- Faculty Student Interaction
- 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



Research & Development



Research & Development



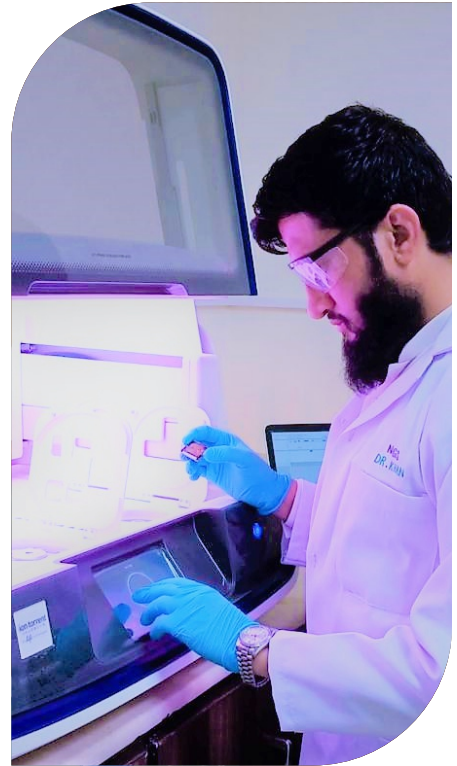
Research & Development



Research & Development



Research & Development



Research & Development



Research & Development



Research & Development



Research & Development





RESEARCH AND DEVELOPMENT

The Office of Research, Innovation and Commercialization (ORIC) has been functioning since 2015 to facilitate students and faculty to support and organize research and commercialization activities at the University. The office also helps in prioritizing research and innovations according to educational, industrial, social, and economic needs in accordance with the University's vision to become a center of innovation, high-impact research and commercialization. It also facilitates intellectual property (IP) protection, implementation of operational and quality standards, and translation of research into commercialization through strong industry-academia linkages and entrepreneurship. The ORIC believes in reciprocal understanding, which is indispensable for coordination between academia and industry to uplift a standardized and well-acclaimed innovation and commercialization ecosystem.

ORIC facilitated the faculty during the fiscal year (2024-25) for submission of 191 research projects to various national and international funding agencies, including NUTRISET, GenScript (GENSCRIPT), PSF (Pakistan Science Foundation), Foundation For Food & Agriculture Research (FFAR), PARC ALP (also written as PARC-ALP), RASTA, Green ERA – HUB, HEC, Azenta, International Growth Centre (IGC), Turkish Cooperation and Coordination Agency (TIKA), Global Disaster Preparedness Center (GDPC), The Shoots by Syngenta, The Elsevier Foundation, The Water Research Foundation (WRF), Wellcome Trust, The Bill & Melinda Gates Foundation, RSTMH, International Centre For Genetic Engineering And Biotechnology (ICGEB), and other government, corporate, industry and private sector organizations.

During the year, nine competitive research grants worth PKR 78.88 million have been won by the faculty from various national/international funding agencies, industry/private sector and NAVTTC. The research projects worth PKR 78.88 million national funding agencies, PKR 16.33 million from the industry/private sector and PKR 13.80 million from NAVTTC were awarded to the faculty for the proliferation of scientific culture and innovative research. The execution of 28 ongoing research projects worth PKR 326.98 million is in progress. The research activities of 4 international projects (PKR 88.16 million), 24 national projects (PKR 238.81 million) and 16 industry/private sector projects (PKR 101.32 million) are being undertaken by the faculty. Moreover, ORIC has also facilitated the faculty for the successful completion of 09 research projects worth PKR 72.45 million and 10 Industry funded projects of worth PKR 27.94 million.

The availability of a conducive research and working environment enabled the faculty to publish 261 research articles in well-reputed national and international peer-reviewed journals and contributed as authors of 80 chapters in the books published by internationally recognized publishers. Faculty was facilitated by ORIC for filing of one patent to IPO Pakistan. On the other hand, 14 Agreement(s) of Cooperation (AoCs) have been signed with various national and international organizations and ORIC is striving for the successful implementation of these AoCs with the partner organizations in collaboration with the Director External Linkages and concerned Focal Person(s).

Similarly, ORIC has extended support to teaching departments in organizing four national and international conferences, seven students poster/plant centric meal/dish making and business competitions, and 17 national and international Seminars/Webinars. The capacity building and mentoring activities including 23 faculty trainings/workshops and six trainings of students/researchers under the Central Lab System were carried out. Other 35 outreach, recreational and civic engagement events including Mango Festivals at Islamabad, Multan and Lahore, AFS Venture Spark, farmer advisory and industry consultancy activities were organized for the benefit of the agroindustry, the community, and relevant stakeholders. ORIC strived to secure revenue of PKR 55.32 million including events sponsorships (PKR 45.89 million), consultancy services (PKR 0.99 million), university overhead from research grants (PKR 8.28 million) and lab analytical services (PKR 0.16 million).



MNS University of Agriculture, Multan (MNSUAM) has demonstrated commendable progress in national and international rankings, reflecting its strong commitment to sustainability, innovation, and academic excellence. In the UI GreenMetric World University Rankings 2024, MNSUAM ranked 3rd nationally and 159th globally for its green campus and sustainability initiatives. The University also secured 5th position in Pakistan and 217th globally in the WURI Rankings 2025 for innovation. In the Times Higher Education (THE) Impact Rankings 2024, MNSUAM ranked 3rd nationally and 401–600 globally in the subject of Agriculture and Forestry, with top national placements in several SDGs, including 1st in SDG 13 (Climate Action), 2nd in SDGs 6, 7, and 12, and 3rd in SDG 2 (Zero Hunger). Additionally, MNSUAM was placed in the 401–475 band in the QS World University Rankings 2025 for Agriculture & Forestry and ranked 351–400 in the Interdisciplinary Science Rankings 2025 by Times Higher Education. As per the 2023–2024 evaluation report, the University was placed in the 'X' category, achieving 1st position in South Punjab, 3rd in Punjab, and 8th nationwide. Furthermore, MNSUAM has joined the SDG Accord with the Environmental Association for Universities and Colleges (EAUC), aligning with 24 Pakistani institutions in advancing the UN Sustainable Development Goals. Adding to its global recognition, MNSUAM has also secured the prestigious UNESCO Chair on Low Carbon and Sustainable Agriculture in Biosphere Reserves, further strengthening its leadership in sustainability and environmental stewardship.

2. PROJECTS

2.1. Research Projects Awarded

2.1.2. National Project Awards

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Commercialization Chemosterilant Baits for the Management of Fruit Flies in Mango, Guava and Citrus	Prof. Dr. Shafqat Saeed	13.30	HEC
2	Development of indigenous Seed coating and Pelleting Technologies for improved plantability and crop productivity	Dr. Muhammad Amir Bakhtavar,	6.30	HEC
3	Dehydration Technology for the Development of Natural Fruit Snacks and Powder	Prof. Dr. Umar Farooq	10.56	HEC
4	Developing of indigenous Rotary pruner for canopy management of orchards	Dr. Umair Sultan	1.52	PARB



5	Enhancing Agricultural Diversity in Punjab through Introduction, Adaptation, and Promotion of coffee, cocoa, cassava, and Tea	Dr. Tanveer Ahmad	47.19	PARB
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2.1.3. Industrial Research Project Awards

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Current Status of Insecticide Resistance in Cotton Whitefly (<i>Bemisia Tabaci</i>) in Major Cotton Growing Area of Punjab, Pakistan	Dr. Naeem Iqbal, Assistant Professor, IPP	4.109	CropLife Pakistan Association
2	Preparation and Characterization of Biostimulant Enriched Polymer Coated Urea (BSE-PCU) for Different Soils	Dr. Wazir Ahmed, Associate Professor, SES	1.2305	Nice International Crop Excellence (Pvt.) Ltd. Multan
3	Establishment of Carbon Offsetting Plantation under Climate Change Scenario	Dr. Muqarrab Ali, Associate Professor, Climate Change	4	Sui Northern Gas Pipelines Limited (SNGPL)
4	Risk-based Assessments of Aquifer Vulnerability for Khanewal Study Area	Prof. Dr. Irfan Ahmad Baig, Dean FSSH	3.04	FAO, United Nations
5	Assessment of baseline resistance monitoring program of (Bixlozone) F-VPF46-R016 400C for Phalaris minor of wheat in greenhouse in Pakistan.	Dr. Abdul Ghaffar, Professor, Agronomy	1.056	FMC United Private Limited
6	Beautification and Pollution Control of Ali Cottage Housing Complex Through Development and Execution of Landscape Design	Dr. Gulzar Akhtar, Assistant Professor, Horticulture	1.2364	Ali Cottage Housing (Opal Marketing), Multan
7	Establishment of a Mobile Laboratory System for Real-Time Assessment of Soil and Water Quality	Dr. Umair Riaz, Assistant Professor, SES	1.662	EMC Sciences, Multan



2.1.4. Skill Development Project Awards

Sr. No.	Project Title	Focal Person	Total Amount (PKR Million)	Funding Agency
1	Prime Minister Special Initiative for Agriculture	Dr. Rana Binyamin	12.0	NAVTTTC
2	Prime Minister Youth Skills Development Program "Batch-II" Summer of Code	Dr. Rana Binyamin	1.8	NAVTTTC

2.1. Ongoing Research Projects

2.2.1. International Projects

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Accelerating genetic gain in wheat through hybrid breeding in Bangladesh, Ethiopia and Pakistan	Prof. Dr. Asif Ali/ Prof Dr Ishtiaq Rajwana Prof Dr Shafqat Saeed	77.12	ACIAR
2	Cultivation of Major New Varieties of Green and High efficiency Wheat	Dr. Shoaib Ur Rehman	2.98	Chengdu Institute of Biology, Chinese Academy of Sciences
3	Developing competitive and inclusive value chains of pulses in Pakistan	Dr. Mubashir Mehdi	5	ACIAR
4	Isolation of wheat cultivars with higher ferulic acid contents in grain	Dr. Shoaib Ur Rehman	3.06	Pinduoduo China Agricultural University Research Fund



2.2.2. National Projects

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Biofortification of Fodders with Selenium to Improve Milk Yield and Quality in Dairy Cattle	Prof. Dr. Abdul Ghaffar	4.144	PSF
2	Enhanced alfalfa forage productivity and seed quality through efficient weed management	Dr. Mudassar Ali	22.308	PARB
3	Development of Soybean in Pakistan to reduce the import bills	Prof. Dr. M. Hammad Nadeem Tahir	17.948	PARB
4	Thinking beyond the Herbicide Efficacy Box: Appraising Herbicide Resistance, Leaching, Persistence and Carryover in Cotton-Wheat Cropping System	Dr. Amar Matloob	5.023	HEC
5	Genetic Transformation of potato (<i>Solanum tuberosum</i>) with Ipomoea batatas orange (IbOr) for Enhanced Photosynthesis and Productivity	Dr. Ummara Waheed	5.297	HEC
6	Advancements in Saline Agricultural technology related interventions for food security, climate change resilience and its dissemination to stakeholders (Treatment of brackish water for growing of vegetables and irrigation management of mango orchards)	Dr. Tanveer Ul Haq	7.495	PARB
7	Production of certified Mango Nursery for Small Tree System	Dr. Kashif Razzaq	6.495	HEC
8	Supply chain management and value addition of jaman fruit (<i>Syzigium cumini</i>)	Dr. Sami Ullah	2.971	HEC



9	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	4.84	PARB
10	Development and Commercialization of Indigenous Technology for Production of Moringa Seed Oil as Food Ingredient	Dr. M. Shahbaz	4.05	PSF
11	Production of high-yielding and heat-tolerant hybrid seed of Chili	Dr. M. Abu Bakar Saddique	11.028	PARB
12	Identification and Management of unknown blackening of Cotton Leaves Disease	Prof. Dr. M. Ashfaq	3.365	PARB
13	Design and development of Integrated partial automatic Potato Digger	Dr. Umair Sultan	4.879	PSF
14	Development of Indigenous Low Distribution Manure Injection Machine for the enrichment of Soil Nutrients	Dr. Sarfraz Hashim	4.7	PSF
15	Using Artificial Intelligence from Illness to Eco-Wellness	Dr Nadeem Iqbal	3.6	HEC
16	Standardization of Sugarcane juice as a value-added product	Dr. Ambreen Naz	13.35	SRDB
17	Agronomic Interventions and Postharvest value addition to promote millets for crop diversification, nutritional security and Climate Smart Agriculture	Dr. Amar Matloob	28.983	PARB
18	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	3.925	PARB



19	impact of climate change and public sector research investment on total factor productivity	Prof. Dr Nasir Nadeem	5.706	PARB
20	Commercialization Chemosterilant Baits for the Management of Fruit Flies in Mango, Guava and Citrus	Professor Dr. Shafqat Saeed,	13.13	HEC
21	Development of indigenous Seed coating and Pelleting Technologies for improved plantability and crop productivity	Dr. Muhammad Amir Bakhtavar,	6.30	HEC
22	Dehydration Technology for the Development of Natural Fruit Snacks and Powder	Prof. Dr. Umar Farooq	10.56	HEC
23	Developing of indigenous Rotary pruner for canopy management of orchards	Dr. Umair Sultan	1.52	PARB

2.2.3. Ongoing Industrial Projects

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Promoting Regenerative Agriculture in Wheat-Rice Cropping Systems in Punjab, Pakistan	Dr. Abid Hussain, MIL, ORIC	3.71	Syngenta Pakistan
2	Establishment of R&D Lab for Mass Production of Technical Grade Biostimulant at MNS University of Agriculture, Multan	Dr. M. Arslan Khan, Lecturer, IPP	5.10	Rise AG, Multan
3	Water Regeneration & Environmental Sustainability	Mr. Mahmood Alam, Lecturer, IPBB	5.00	Nestle, Pakistan
4	Colorful Cotton Cultivation: Unveiling Genomic Secrets	Dr. Akash Fatima, Assistant Professor, IPBB	3.59	Mahmood Group Textiles, Multan
5	Micropropagation and Varietal Improvement of Sugarcane Against Red Rot Through Tissue Culture	Dr. Plosha Khanum, Lecturer, IPBB	10.69	Indus Sugar Mills, Rajanpur, Pakistan

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6	EcoVigilance: Innovating Dual-Action Traps for Monitoring and Management of Aedes (Dengue) Mosquitoes and exploring their diversity in Multan.	Dr. Farrukh Baig, Assistant Professor, IPP	1.25	Hussain Salman Chemicals, Multan
7	Establishment of a Miyawaki Urban Forest at MNS University of Agriculture Multan to Address Climate Change	Dr. Muqarrab Ali, Associate Professor, Climate Change	1.00	OGDCL, Pakistan
8	Development and Promotion of Hybrid Cotton Seed Production for Increasing Quality and Quantity of Cotton in Pakistan	Dr. Zulqurnain Khan, Assistant Professor, IPBB	33.91	Guard Agriculture Research and Services Multan & BRI, CAAS, China
9	State of the Art Mango Drying Facility at MNS - University of Agriculture, Multan	Mr. Bilal Ahsan, Lecturer, Agri Business	18.72	Export Development Fund
10	Current Status of Insecticide Resistance in Cotton Whitefly (Bemisia Tabaci) in Major Cotton Growing Area of Punjab, Pakistan	Dr. Naeem Iqbal, Assistant Professor, IPP	4.109	CropLife Pakistan Association
11	Preparation and Characterization of Biostimulant Enriched Polymer Coated Urea (BSE-PCU) for Different Soils	Dr. Wazir Ahmed, Associate Professor, SES	1.2305	Nice International Crop Excellence (Pvt.) Ltd. Multan
12	Establishment of Carbon Offsetting Plantation under Climate Change Scenario	Dr. Muqarrab Ali, Associate Professor, Climate Change	4	Sui Northern Gas Pipelines Limited (SNGPL)
13	Risk-based Assessments of Aquifer Vulnerability for Khanewal Study Area	Prof. Dr. Irfan Ahmad Baig, Dean FSSH	3.04	FAO, United Nations
14	Assessment of baseline resistance monitoring program of (Bixlozone) F-VPF46-R016 400C for Phalaris minor of wheat in greenhouse in Pakistan.	Dr. Abdul Ghaffar, Professor, Agronomy	1.056	FMC United Private Limited
15	Beautification and Pollution Control of Ali Cottage Housing Complex Through Development and Execution of Landscape Design	Dr. Gulzar Akhtar, Assistant Professor, Horticulture	1.2364	Ali Cottage Housing (Opal Marketing), Multan
16	Establishment of a Mobile Laboratory System for Real-Time Assessment of Soil and Water Quality	Dr. Umair Riaz, Assistant Professor, SES	1.662	EMC Sciences, Multan



2.3. Completed Projects

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Adopting to Salinity in the Southern Indus Basin (ASSIB)	Prof. Dr. Irfan A. Baig	7.4	ACIAR
2	Taxing the Rental Incomes in Agriculture: Analysis of Alternate Options	Prof. Dr. Irfan Ahmad Baig	3.577	RASTA-PIDE
3	Green Technology Integration and Mode Construction of Highland Barley in Tibet	Dr. Shoaib Ur Rehman	3.385	Chengdu Institute of Biology, Chinese Academy of Sciences
4	Design and development of Indigenized Compost Windrow Turner for the enrichment of Soil nutrients	Engr. Dr. Sarfraz Hashim	10.13	PARC
5	Smart Traps for detection and monitoring of Flying Insect Pests (aka SmarTrapS)	Dr. Ayesha Hakim	28.659	HEC
6	Genetic Adaptability and Water-fertilizer Intelligent Regulation Mechanism of Climate Smart Varieties	Dr. Zulqarnain Khan	9.2	PSF
7	Design and Development of self-propelled energy efficient multi-grain crop planter	Dr. Umair Sultan	3.899	HEC
8	Whole Genome Sequencing and analysis of 11 beneficial non-pathogenic bacteria	Dr. Muhammad Faisal	3.13	GetGenome, UK
9	Role of ornamental plants to mitigate soil heavy metal pollution	Dr. Gulzar Akhtar	3.07	HEC



2.4. Completed Industrial Projects

Sr. No.	Project Title	Principal Investigator	Total Amount (PKR Million)	Funding Agency
1	Establishment and Propagation of Miscanthus and Sisal as a Pulp and Energy Crops.	Dr. Muhammad Baqir Hussain	7.93	Bulleh Shah Pacaging, Lahore
2	Infestation Assessment and Ecofriendly Management of House Fly and Common House Ant in Multan	Dr. Naeem Iqbal	1.61	Nuchem Pvt. Limited, Multan
3	Production technology and shelf line standardization of dried mango	Prof. Dr. Umar Farooq	1.70	Green Agricultural Services, Multan
4	Establishment of true to type mango nursery certified from federal seed certification department	Dr. Sami Ullah	1.62	Mehmood Group
5	Ground water modelling and information products for Khanewal area	Prof. Dr. Irfan Ahmad Baig	1.83	FAO
6	Farms in Arms, Rehabilitation of Flood Affected Farmers of DG KHAN	Dr. Muhammad Ishtiaq	5.61	Evyol Group
7	Role of Hermetic Technology in the Reduction of Postharvest Losses of Biofortified Zinc Wheat in South Punjab	Prof. Dr. Umar Farooq	3.61	Global Alliance for Improved Nutrition (GAIN)
8	Development and Consumer Acceptability of Fish Based Value Added Products	Dr. Nida Firdous	1.77	Pioneer Aqua's, Multan
9	Beautification and pollution control of Khawaja Mineral Industries using ornamental plants	Dr. Gulzar Akhtar	1.17	Khawaja Mineral Industries, Multan



10	Enhancing aesthetic beautification through tree plantation	Dr. Gulzar Akhtar	1.10	Alkhidmat Foundation South Punjab, Pakistan
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2.5. Facilitation for Filing of Patents

The ORIC facilitated the following faculty members in completing documentation for filing of patents during 2024-25.

Sr. No.	Name of Faculty	Department / Institute	Innovation	National / International
1	Dr. Sarfraz Hashim, Assistant Professor	Agricultural Engineering	Tractor Mounted Rotatable Biomass Shredder with Hydraulic Feed and PTO Driven Cutting Mechanism	National

2.6. Seminars/Webinars

Sr. No.	Date	Title	Department / Institute	National / International
1	06-07-2024	International seminar on World Food Safety Day	Department of Food Science & Technology	International
2	21-08-2024	Seminar on Planning and Navigating Research Ethics for Working with Living Object	Department of Agriculture and Resource Economics	National
3	26-08-2024	seminar on "Closing the gap, breastfeeding support for all	Department of Human Nutrition and Dietetics	National
4	19-09-2024	Round Table Conference on Rhodes Grass Fine Cut Cultivation	Maxim Agri. (Pvt.) Limited, Pakistan and MNSUAM	International
5	7-10-2024	Fruit Plant Plantation Drive	Department of Horticulture	National
6	29-10-2024	One Day Seminar on "Combating Violence Against Women through Community Policing	MNSUAM	National

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7	21-10-2024	Seminar on Breast Cancer	Faculty of Veterinary and Animal Sciences and Public Health Society	National
8	13-11-2024	Seminar on "Dissemination of Strategy developed under Punjab Family Planning Program (PFPP)"	Department of Human Nutrition and Dietetics	National
9	14-11-2024	Webinar on "Long-Term Weather forecasting and Climate Smart Wheat Management"	Department of Agronomy	National
10	26-11-2024	Seminar on " Fikar e Iqbal"	MNSUAM	National
11	09-12-2024	Seminar on "Entrepreneurship as Career Option"	Department of Agribusiness and Entrepreneurship Development	National
12	04-12-2024	Internation seminar on "Enhancing Rhodes Grass and Alfalfa exports: Best Practices and Market Opportunities"	Department of Agronomy	International
13	13-02-2025	Understanding and mitigating the HIV related Stigmatization	Faculty of Veterinary and Animal Sciences	National
14	20-03-2025	One day Seminar "Revolutionizing the Argo-based Industry Through Automation and Robotics"	Department of Agricultural Engineering	National
15	08-05-2025	Sustainable soil health Management in the wake of Climate Change for Food Security	Department of Soil and Environmental Science	National
16	22-05-2025	Seminar on Mental Health: "Breaking the Silence – Ending the Stigma Around Mental Health"	MNSUAM	National
17	29-05-2025	Seminar on Intellectual	MNSUAM	National



2.7. Conference

Sr. No.	Date	Title	Department / Institute	National / International
1	30-10-2024	4 th International Conference on Smart Plant Protection	Institute of Plant Protection	International
2	12 -11-2024	2 nd International Conference on "Food Security and Value Chain Systems: Challenges and Opportunities in Emerging Economics"	Faculty of Social Sciences and Humanities	International
3	07-12-2024	One day conference on "Challenges for Cotton Crop and Way Forward"	MNSUAM	National
4	20-05-2025	5 th International Conference on Bee pollination and Conservation	Institute of Plant Protection	International

2.8. Other Outreach/Recreational/Capacity Building Activities

2.8.1 Competitions

Sr. No.	Date	Title	Department
1	05-09-2024	Traditional Recipe Development Competition	Department of Food Science & Technology
2	16-10-2024	Poster Competition on World Food Day	Department of Food Science & Technology
3	10-12-2024	AFS Venture Spark 2024- Business Plan Competition-2024	BIAEC
4	16-10-2024	Poster Competition on World Food Day	Department of Food Science and Technology
5	10-12-2024	Food Value Addition Competition	Faculty of Food and Home Sciences
6	23-12-2024	On spot Coding Competition	Institute of Computing
7	25-02-2025	1st All Pakistan Bilingual Declamation (APDC-25)	Debating Club



2.8.2 Faculty and Staff Training/Workshops Organized

Sr. No.	Date	Title	Department / Institute
1	15-08-2024	workshop on SMARTRAPS (AI and IoT-based device for automated insect pest surveillance)	Institute of Computing
2	19-08-2024	Co2libri Workshop on Identifying connective knowledge	Faculty of Social Science and Humanities
3	09-09-2024	One day training on " Maintenance of Landscape Plants"	Department of Horticulture
4	16-10-2024	Two Days Training on High Efficiency Irrigation System	Department of Agricultural Engineering
5	16-10-2024	Inaugural training session on Center Pivot Irrigation Systems	Faculty of Agricultural Biosystems Engineering and Technology (FABSET)
6	17-10-2024	Hands-on Training on Certified Mango Nursery Production	Department of Horticulture
7	17-10-2024	Hands-on Training on "Certified Mango Nursery Production"	Department of Horticulture and MRI
8	04-11-2024	Training workshop under project titled "Advancement in Saline Agriculture Technology-related interventions for Food Security, Climate Change resilience, and its dissemination to stakeholders" funded by PARB-20-70	MNSUAM
9	27-11-2024	One day workshop on "Wheat Productivity Enhancement"	Agronomy
10	27-11-2024	One-day hands-on training session on "Cold Sandwiches & Salads	Department of Home Sciences
11	28-11-2024	Hands on training on Edible oil Extraction Techniques for Value Addition"	Department of Food Science & Technology
12	02-12-2024	Capacity Building Program for University Management by HEC	MNSUAM & NAHE, HEC
13	06-12-2024	One day workshop on "From beginner to Pro: The Ultimate Tech career Path"	Institute of Computing



14	13-12-2024	Workshop on "Unleash Your Potential: Microsoft Imagine Cup 2025"	Institute of Computing
15	26-12-2024	Training session on the use of CABI's digital tools	HEC & CABI
16	17-02-2025	Awareness Session regarding the Graduate Education Policy (GEP-2023)	MNSUAM
17	25-02-2025	One day training workshop on "Fruits and Vegetables Processing for Value Addition"	Department of Food Science & Technology
18	27-02-2025	Two-day General Training of Clinical Dietitians Under PKNC	Department of Human Nutrition and Dietetics

2.8.3 Students Training under Central Lab System

Sr. No.	Date	Title	Name of Trainer
1	04-09-2024	Hands on training on "Kjeldhal Digestion, Distillation and Soxhlet Apparatus"	Dr. Shabbir Ahmad
2	04-09-2024		Mr. M Usman
3	10-09-2024		Mr. M Usman
4	29-04-2025	Hands-on Training on GCMS	Dr. M. Asif Farooq
5	19-08-2024		
6	29-04-2025		
7	23-12-2024	Hands on Training on "Slide Making and Micrometry"	Dr. Unsar Naeem-Ullah
8	29-12-2024		
9	29-04-2025		

2.8.4 Celebrations/Interactive Sessions

Sr. No.	Date	Title	Department/Institute
1	27-07-2024	Consultative Session on "Eco-Smart Mango Production: Opportunities and Way Forward"	MNSUAM
2	09-10-2024	Consultative Provincial Dialogue on Learning of Flood 2022, Stock of Good Practices, Challenges	Department of Agronomy

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3	10-10-2024	Session on Islamic investment, Financial Planning and Retirement Funds	Al Meezan Bank and MNSUAM
4	10-07-2025	Field Day on Mango Pruning under STS Model	Department of Horticulture
5	10-10-2024	Mehfil-e-Milad titled "The perfect Model and The Contemporary Youth"	Department of Agricultural and Resource Economics and the Department of Agribusiness and Entrepreneurship Development
6	17-10-2024	World Cotton Day: Cotton for Good	MNSUAM and WWF-Pakistan
7	16-10-2024	World Food Day	Department of Food Science & Technology
8	25-11-2024	Kisan Convention	Department of Agronomy
9	24-01-2025	Interactive Session with MNSUAM Faculty and Employees for admission criteria at Pak-Turk Maarif International School & College in Multan	MNSUAM
10	21-03-2025	World Forest Day	Department of Climate Change, Department of Soil and Environmental Sciences and the Estate Management
11	29-04-2025	Interactive Session with Focal Person of Prime Minister for Green Youth	MNSUAM

2.9 Research Linkages

2.9.1 International

Sr. No.	Organization	Country	Signing Date
1	Institute for Asian and African Studies, Humboldt-Universität zu Berlin	Germany	21.08.2024
2	Scientific Research Institute of Rainfed Agriculture, Republic of Uzbekistan (Academic)	Uzbekistan	07.03.2025
3	Scientific Research Institute of Rainfed Agriculture, Republic of Uzbekistan (Research)	Uzbekistan	07.03.2025



2.9.2 National

Sr. No.	Organization	Signing Date
1	The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs	03.07.2024
2	Samsons Agri Farms, Rangpur, Muzaffargarh, Pakistan	15.07.2024
3	Yumnah Overseas Employment Promoters, Multan, Pakistan	16.08.2024
4	Sui Northern Gas Pipelines Limited (SNGPL)	29.08.2024
5	The Pakistan Institute of Development Economics (PIDE), Pakistan	25.11.2024
6	FMC United Private Limited	30.11.2024
7	MG Agri Foods (Pvt) Ltd, Multan, Pakistan	07.03.2025
8	MG Agri Foods (Pvt) Ltd, Multan, Pakistan	07.03.2025
9	Islamic Relief Pakistan	19.05.2025
10	Rizq Trust, Pakistan	17.06.2025
11	Ali Cottage Housing (Opal Marketing), Multan	24.07.2025

2.10 Awards Won

During the reported year, following faculty members won national / international level awards:

Sr. No.	Title of Award / Honor	Forum/Conferring Authority/Organization	Name, Designation and Department of Award Winner
1	President Gold Medal Award	Punjab Boy Scouts Association	Ms. Saira Fatima, Bachelor student from IPBB
2	High Impact Publication and Citations Award	MNS University of Agriculture, Multan	Prof. Dr. Muhammad Ashfaq, Professor/Director, Institute of Plant Protection
3	High Impact Publication and Citations Award	Vice Chancellor/MNS-University of Agriculture, Multan	Dr. Muhammad Arif, Lecturer, Department of Soil and Environmental Sciences
4	High Impact Publication and Citations Award	Vice Chancellor/MNS-University of Agriculture, Multan	Dr. Muhammad Baqir Hussain, Associate Professor, Department of Soil and Environmental Sciences



5	Councilor (Punjab)	Soil Science Society of Pakistan	Dr. Muhammad Baqir Hussain, Associate Professor, Department of Soil and Environmental Sciences
6	1st position under Textile Theme during Smart-Tech Exhibition Projects (STEP 24) in 13th IEEE Fair 2024	Smart-Tech Exhibition Projects (STEP 24) in 13th IEEE Fair 2024 organized by Dawood University of Engineering & Technology in collaboration with Badar Expo Solutions at Expo Centre, Karachi	Dr. Akash Fatima, Assistant Professor, Institute of Plant Breeding and Biotechnology
7	Best Agricultural Studies and Research	The National Initiative for Agricultural Development	Dr. M. Nadir Naqqash, Assistant Professor, Institute of Plant Protection
8	2nd Position in AFS VENTURE SPARK 2024	AFS VENTURE SPARK 2024, MNSUAM	Engr. Dr. Umair Sultan, Assistant Professor Dept. of Agricultural Engineering, MNSUAM
9	1st Position in PINTECH Expo 2025	Punjab Innovation & Technology Innovation (PINTECH) Expo 2025 organized by PHEC	Engr. Dr. Umair Sultan, Assistant Professor Dept. of Agricultural Engineering, MNSUAM
10	Best Reader 2024	2nd South Punjab Library Festival, 2025	Engr. Dr. Umair Sultan, Assistant Professor Dept. of Agricultural Engineering, MNSUAM

2.11. ORICs Self-Assessment Scorecards Evaluation Report (2022.23) by HEC

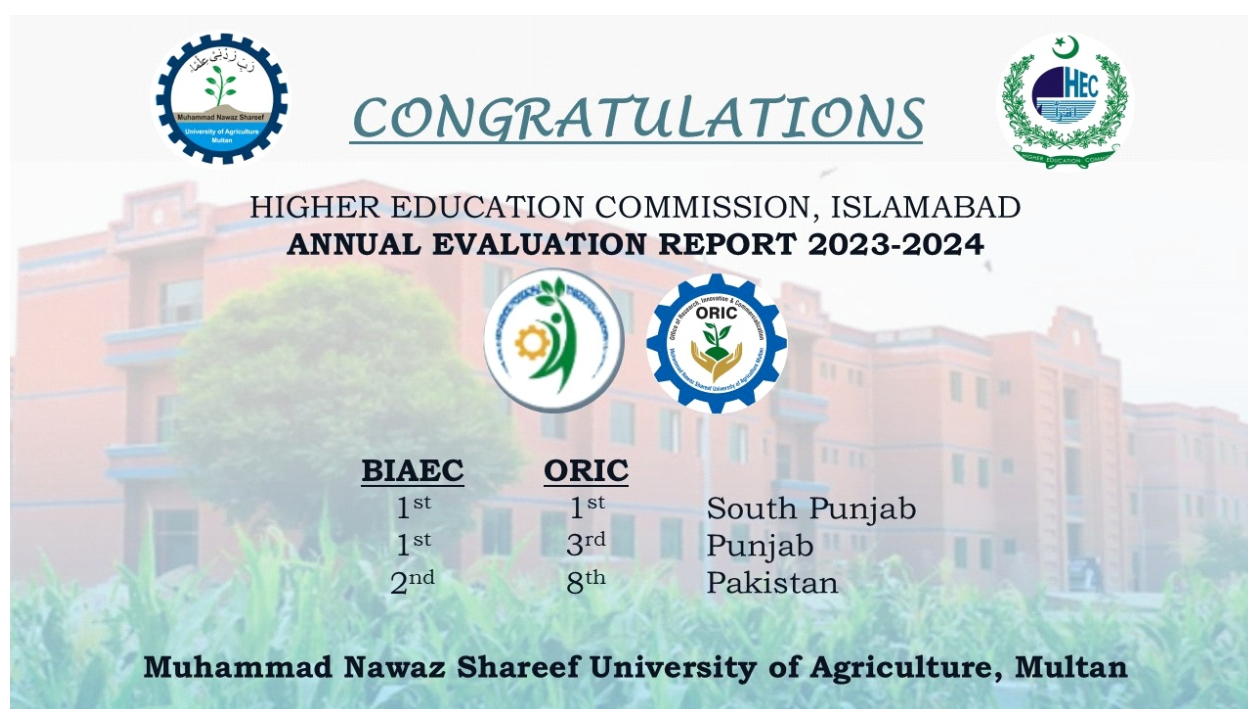
Higher Education Commission Islamabad introduced ORIC Policy 2021 for recognition of ORICs to enhance research quality, relevance and competitiveness and promote innovation and Commercialization at HEIs. Accordingly, ORIC MNSUAM was recognized by HEC on 11.10.2021 and achieved the status of 2nd recognized ORIC at the national level and 1st recognized ORIC in Southern Punjab.

The HEC measures the performance of all recognized ORICs through a 'Self. Assessment Scorecard' on a financial year basis. For the year 2022.23, HEC. recognized ORICs were asked to furnish their performance on a scorecard having the key performance indicators under the following major aspects:

A. Human Resource Operations	10
B. Research Excellence	45
C. Innovation Commercialization	30
D. Sustainability Capacity Building	15
Total	100



The Key Progress Indicators are derived from HEC's ORIC Policy 2021, which, in summary, include: ORIC human resources, infrastructure and governance, assistance/research support, research proposal submissions, joint research projects run, contract research agreements, policy advocacy consultancy, agreements signed for collaborations, linkages established with HEIs/corporate sector, MoUs signed with HEIs, commercialization of research, IP/Research Policy status, MoUs with industries/chambers for industrial linkages, patents filed and granted, liaison with industry, revenue generated, strategic plan, workshops, training and showcasing organized. Higher Education Commission, Islamabad evaluated the performance of all the universities across Pakistan on the basis of prescribed key performance indicators for the financial year 2023-2024. ORIC.MNSUAM has been placed in category "X" and has secured 1st amongst all the South Punjab Universities and 8th amongst all the Universities of Pakistan.



2.12. Revenue Generated

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	45.89
ORIC Overhead from Research Projects	8.286
Consultancies provided	0.99
Lab Sample Analysis	0.16
Total	55.32



2.13 Facilitation to HEC Indigenous Awardee(s)

ORIC facilitated 17 PhD awardees of HEC Indigenous.5000 Fellowships, enrolled in various departments of MNSUAM for the accomplishment of their research work through timely disbursement of funds from the Treasurer Office.

2.14 Promotion of Research and Consultancy Culture

ORIC is striving hard to promote the culture of research and consultancy by creating a research ecosystem. During the reported year, eight faculty members provided consultancies to various agencies/industries e.g., Agri-Tech Solutions, BIAEC, MNSUAM; Rural Business Development Center (RBDC), Pakistan; Rural Education and Economic Development Society (REEDS), Pakistan; Doaba Foundation; Mr. Samee Ur Rehman (Farmer); Mr. Syed Rashid Hussain Shah Bukhari (Farmer, Uch Gul Aman, Tehsil 18-Hazari, District Jhang) and Agribusiness Support Fund (ASF), Pakistan.

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 like the establishment of the South Punjab Agriculture Forum.

2.15. Business Incubation and Agricultural Entrepreneurship Center (BIAEC)

Business Incubation and Agricultural Entrepreneurship Center (BIAEC) is aimed to initiate the business culture among the youth, including students and career professionals of South Punjab. The overall focus of this initiative is to mobilize the new generation toward economic development by launching businesses and social enterprises. The BIAEC provides excellent counseling to students. The BIAEC helps students to convert their innovative ideas into valuable businesses.

2.15.1 Current developments at BIAEC

- Top ranked Business Incubation Centre in Pakistan to achieve “W category” in 2nd consecutive year.
- Ranked 1st among all South Punjab Business Incubation Centers in Pakistan as per the HEC BIC Annual Evaluation Report 2023-2024
- Ranked 7th among all Business Incubation Centers in Pakistan as per the HEC BIC Annual Evaluation Report 2023-2024
- BIAEC two startups (Microbiome and Triple Repulsion Motor) won ISF Award 2023 with the funding of \$ 35000 each
- Successfully organized AFS Venture Spark 2024, AFS Venture Spark 2023 and DICE AFS since last four years.
- Signed MoU with LUMS under “Tabeer Project” Funded by USAID
- 14 companies are registered with SECP, 1 Patent registered with USA and 4 Trademarks registered with IPO.
- Nomination of Business Incubation Center for CLDP meeting USA by HEC.
- Collaboration with Code to Change for training and curriculum development of incubates
- Collaboration with Dakhlay.com to facilitates entrepreneurship and admissions
- Collaboration with Kohsar University Murree for joint Bootcamp for incubates
- Commercial linkages of the accelerating companies (Green Agriculture Services with Mehmood Group and mango clusters)
- Commercial linkages of Faculty.led startup (Colored Cotton Produce with Mehmood Group)
- 50+ mentors from Industry and Academia are part of BIAEC, MNSUAM.



2.15.2. Capacity building sessions for incubates

Domain Specialist Sessions

- Bootcamp Session with NUST Business Incubation Centre and National Incubation Centre (NIC) Islamabad (31 Jul 2024)
- Bootcamp Activity Co-Organized by Business Incubation and Agricultural Entrepreneurship Centre (BIAEC), MNSUAM and Koshars University, Murree – Day 1 (01 Aug 2024)
- Bootcamp Activity Co-Organized by Business Incubation and Agricultural Entrepreneurship Centre (BIAEC), MNSUAM and Koshars University, Murree – Day 1 (02 Aug 2024)

Mentorship Sessions

- Orientation Session of Cohort-IV in collaboration of BIAEC and Code to Change (24 Jun 2025)

2.15.3. Business Competitions

- AFS Venture Spark Business Plan Competition (10 Dec, 2024)
- Cohort-IV Selection (16 Apr, 2025)

2.15.4. BIAEC Startups

Sr. No.	Name of Startup	Idea	Sector/Field
1	Trigon International	Consultancy Services	Consultancy Services
2	GreenMach AgriTech	Agri Tech Solutions	Agri Tech Solutions
3	Biologicals+	Agricultural Solutions	Agricultural Solutions
4	Natural Edible Oil Products	Food Business	Food Business
5	Frontier Growth Consultants	Consultancy Business	Consultancy Business
6	Organic Mosquito Rpellent	Plant Based Pest Control Solutions	Plant Based Pest Control Solutions
7	SustainX Hub	Sustainable Agricultural Solutions Provider	Sustainable Agricultural Solutions Provider
8	MycoGold	Sustainable Agriculture Solutions Provider	Sustainable Agriculture Solutions Provider
9	Dehydrated fruits and veggies, herbs spices, essential oils and seeds, honey	Marketing of Value Added Food Products	Marketing of Value Added Food Products
10	Agro Mech Solutions	Agri-Tech Business Solutions	Agri-Tech Business Solutions
11	AK Traders	Scientific and Industrial Supply Business	Scientific and Industrial Supply Business
12	Carry.Online (carry and save)	Tech Enabled Logistics Platform	Tech Enabled Logistics Platform
13	Smart feed: Automated fish feeding system	Fish Farming Automation	Fish Farming Automation

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14	Waste to Wonder	Sustainable Eggshell Value Chain	Sustainable Eggshell Value Chain
15	Green Honey	Food Business	Food Business
16	Trash-2-Treasure	Sustainable Waste Management Business	Sustainable Waste Management Business
17	Khan Super Foods	Food Business	Food Business
18	Agro Bytes	Health and Wellness Consumer Products	Health and Wellness Consumer Products
19	MAGGOT Farming	Agri Business	Agri Business
20	Eco-friendly Pencils	Sustainable Product-Based Business	Sustainable Product-Based Business
21	Seaweed packaging material	Sustainable Packaging Solutions Provide	Sustainable Packaging Solutions Provide
22	AI Based Food Factory	AI-Powered Kitchen Automation Solutions Provider	AI-Powered Kitchen Automation Solutions Provider
23	Electronic smart Nakay for water management	Smart Water Management System	Smart Water Management System
24	Women Barani Besan	Food Business	Food Business
25	NutriPulse Mankera	Food Business	Food Business
26	A.N Agro Services Pvt. Ltd.	Local and International Fruit value added products marketing	Local and International Fruit value added products marketing
27	Fruits and Vegetables Dehydration and export facility	Fruits and Vegetables Dehydration and export facility	Fruits and Vegetables Dehydration and export facility
28	BerryBite Organics	Health & Nutrition Business	Health & Nutrition Business
29	Rhizogreen	Sustainable Bio-Fertilizer Solutions	Sustainable Bio-Fertilizer Solutions



2.15.5. University Enterprises (SEC Registered)

	<p>Startup Name: Puchick (Pvt.) Ltd.</p>		<p>Startup Name: Pioneer Aqua's Pvt.Ltd (value added fish products)</p>
	<p>Startup Name: Proti.N Enterprises (Multigrain Flour)</p>		<p>Startup Name: Stress Saviors Pvt. Ltd.</p>
	<p>Startup Name: Triple Repulsion Electric Motors</p>		<p>Startup Name: HONEY WORLD H.W ENTERPRISE (SMC) PRIVATE LTD</p>
	<p>Startup Name: RAVAL MANGO</p>		<p>Startup Name: Microbiome</p>
	<p>Startup Name: Snack Spark</p>		<p>Startup Name: Photon.AI (parent company of Smart Traps)</p>
	<p>Startup Name: HORTI DOCTORS</p>		



2.16. University Rankings

MNSUAM is well recognized in the agricultural sector that was the key objective of vision 2025. 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.

- UI GreenMetric World University Rankings 2024
- Times Higher Education (Impact Rankings) 2025
- Ranking of ORIC and BIAEC by the HEC 2025
- The SDG Accord
- QS World University Rankings by subject 2025 (Agriculture & Forestry) 2025
- Interdisciplinary Science Rankings (ISR) 2025

2.16.1. UI GreenMetric World University Rankings

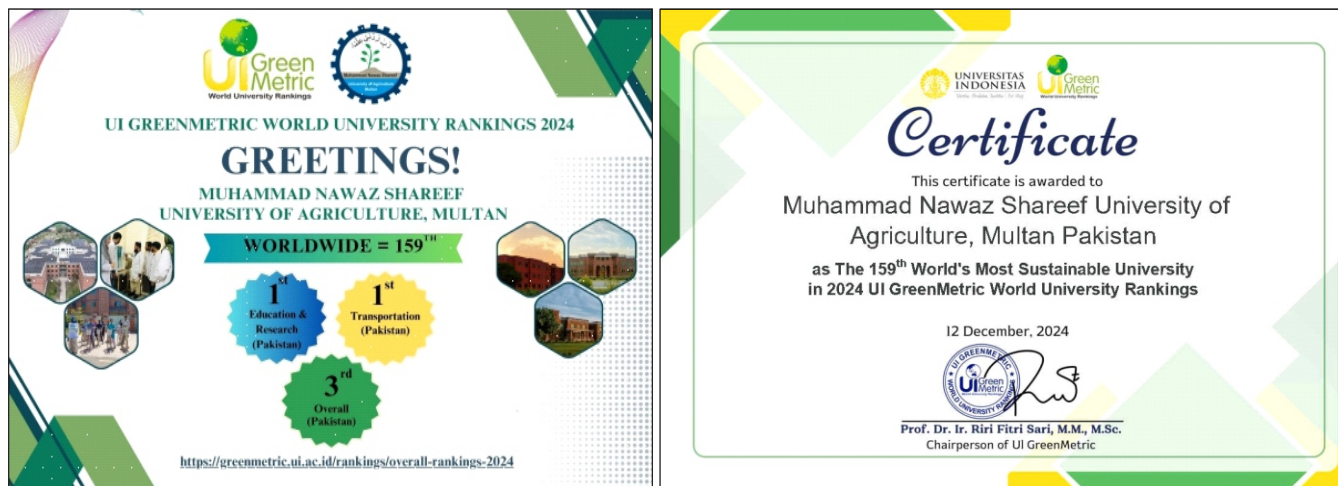
The UI GreenMetric World University Ranking is based on green campus and environmental sustainability initiatives undertaken by the universities. The ranking agency prudently allocates the rankings to the universities by assessing their environmental commitment and initiatives through 39 ranking indicators in six domains. MNSUAM secured 3rd position at the national level and 159th 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 Green Metric

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

MNSUAM nation-wide ranking status by UI GreenMetric

Rankings Domains	2018	2019	2020	2021	2022	2023	2024
Setting and Infrastructure	13 th	9 th	5 th	5 th	6 th	6 th	11 th
Energy and Climate Change	11 th	9 th	10 th	10 th	10 th	13 th	9 th
Waste	2 nd	1 st	5 th	5 th	1 st	1 st	6 th
Water	13 th	12 th	9 th	9 th	7 th	7 th	5 th
Transportation	8 th	13 th	6 th	6 th	4 th	1 st	1 st
Education and Research	3 rd	3 rd	8 th	8 th	8 th	4 th	1 st



2.16.2. Times Higher Education Impact Rankings 2024

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 2025 Times Higher Education (THE) Impact Rankings, placing 3rd overall in Pakistan and 401-600 worldwide. MNSUAM also excelled in the following Sustainable Development Goals (SDGs).

MNSUAM nation-wide and global ranking status by Times Higher Education Impact Ranking 2025

Number and Name of SDG	Ranked In Pakistan	Ranked Worldwide
SDG 13-Climate Action	1 st	=45
SDG 2-Zero Hunger	3 rd	=45
SDG 6-Clean Water and Sanitation	2 nd	101-200
SDG 7-Affordable and Clean Energy	2 nd	101-200
SDG 12-Responsible Consumption and Production	2 nd	101-200
SDG 1-No Poverty	5 th	401-600



2.16.3 Ranking of ORIC and BIAEC by the HEC

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 2023-2024, MNSUAM was placed in 'X' category and secured the 1st position amongst all the Universities of South Punjab, the 3rd position amongst all the Universities of Punjab and the 8th amongst all the Universities of Pakistan. MNSUAM Business Incubation & Agriculture Entrepreneurship Centre was ranked 2nd among all the Pakistan universities.

MNSUAM ranking category among national universities by HEC

Rankings	2023-2024	Category
South Punjab	1 st	X
Punjab	3 rd	
Pakistan	8 th	



2.16.4 The SDG Accord

MNSUAM and The Environmental Association for Universities and Colleges (EAUC) have signed 'The SDG Accord' to inspire, celebrate and advance the critical role that education has in delivering the SDGs and the value it brings to governments, businesses and wider society. Out of 401 (including HARVARD, Oxford, and Leeds Universities), total 24 Institutions from Pakistan sign the accord (including UAF, NUST, WU, and MNSUAM) Accord Signatories recognize:

- The indivisible and interconnected nature of the universal set of Goals – People, Prosperity, Planet, Partnership, Peace etc.
- That, as educators, we have a responsibility to play a central and transformational role in attaining the Sustainable Development Goals by 2030.



2.16.5 QS World University Rankings by subject 2025 (Agriculture & Forestry)

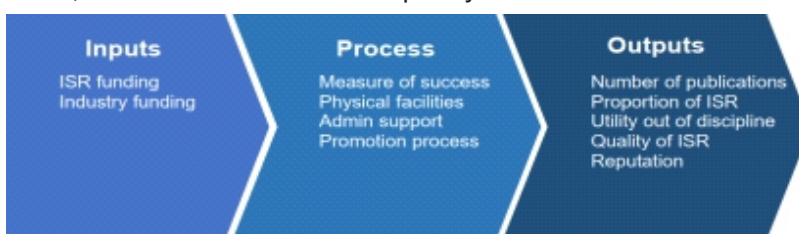
MNS University of Agriculture Multan has achieved a significant milestone by securing a position in the 401-475 range in the QS World University Rankings 2025 for the subject Agriculture & Forestry. This recognition highlights the university's growing academic and research contributions in the field. 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.





2.16.6 Interdisciplinary Science Rankings (ISR) 2025

The Interdisciplinary science refers to the integration of both the knowledge, traditions, and processes from multiple scientific disciplines. It can involve multiple academics who collaborate with one another across different disciplines. It may also be a single academic approaching a scientific question across multiple disciplines. In the ISR 2025, only science disciplines are covered. If a research project involves two or more science disciplines, then it is considered as Interdisciplinary Science. However, if it involves only one science discipline then it is not considered Interdisciplinary Science Research even if it also involves one or more non-science disciplines. If research included two topics that fall under only one of the four applicable subjects, but they belong to two different subjects in the THE's more detailed 31-subject breakdown, it is also considered interdisciplinary.



2.17 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.
- Seven meetings of 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.
- Three meetings of ORIC Steering Committee were held to review the progress and seek guidance from industry members for better functioning of ORIC.
- Regular fortnightly meetings of Central Lab Advisory Committee were convened for smooth working of Central Lab system.
- ORIC annual report was presented to Board of Advanced Studies and Research and subsequently approved by the Syndicate.



2.18 Publications

2.18.1 Journal Articles

The following research papers/manuscripts were published during 2024-25

Sr. No.	Paper	Authors' Name	Year	Journal	Volume	Page/s
1.	A deep learning model for identification of yellow wheat rust	Rimsha Khadim, Aamir Hussain, Salman Qadri, Zulqarnain Khan, Sami Ullah, Muhammad Talha Jahangir, Areej Rani	2024	Journal of Agriculture and Biology	2(2)	230-239
2.	A histogram-based approach to calculate graph similarity using graph neural networks	Nadeem Iqbal Kajla, Malik Muhammad Saad Missen, Mickael Coustaty, Hafiz Muhammad Sanaullah Badar, Maruf Pasha, Faiza Belbachir	2024	Pattern Recognition Letters	186	286-291
3.	A Rule-based capitalization algorithm using NLP for text formatting consistency	Sana Javid, Nadeem Iqbal Kajla	2024	MAchines and Algorithms		107-113
4.	Addressing cadmium stress in rice with potassium-enriched biochar and <i>Bacillus altitudinis</i> rhizobacteria.	Liao, Y., S. Huang, M. Hareem, M.B. Hussain, A.A. Alarfaj, S.A. Alharbi, and S. Alfarraj.	2024	BMC Plant Biology	24	1084
5.	Agronomic and biochemical aspects of moringa dried leaf extract mediated growth and yield improvements in soybean	Irshad S, A Matloob, A Ghaffar, MB Hussain, MH Nadeem Tahir	2024	N. Z. J. Crop Hort. Sci.		1-20

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6.	Agronomic biofortification of tomatoes with iron enhances growth, yield and quality	Ikram NA, A Ghaffar, A Ali Khan, F Nawaz, A Hussain	2024	N. Z. J. Crop Hort. Sci.	Yet not issued	1-14
7.	Amine-functionalized organically modified silica for the effective adsorption of chlorpyrifos and triazophos residues from orange juice	Hayat M, Manzoor S, Raza N, Raza H, Javid A, Ali Z, Khan MI, Algethami FK, AlMasoud N, Alomar TS.	2024	Food Chemistry	15	465:14196 7
8.	An analysis of female university students' attitude towards healthy eating: A case study of Faisalabad	Razzaq A, R Waheed, HZ Mehmood, M Asghar, MK Ashraf	2024	J. Asian Dev. Stud.	13(3)	1206-1212.
9.	Antibacterial potential and dye decolorization with graphitic carbon nitride and eudragit doped CdTe nanostructures evidential molecular docking analysis.	Aslam, A., Ikram, M., Haider, A., Shahzadi, I., Ul-Hamid, A., Ali, G., Ullah, H., Khan, S., Castegnaro, M.V., mana Al-Anazy, M. and Jeridi, M.	2024	Journal of Photochemistry and Photobiology A: Chemistry	454	
10.	Antimicrobial effect of green synthesized TiO ₂ nanoparticles against <i>Cercospora canescens</i> growth in mung bean	Araba Afzal; M Asaf Khan; M Hammad Nadeem Tahir; Zulqurnain Khan; Zeeshan Hassan; Tsanko Gechev; Zareena Ali; Dr. Muhammad Faisal	2024	0	0	0
11.	Antioxidant, anticancer, and anti-inflammatory potential of Moringa seed and Moringa seed oil: A comprehensive approach.	Shahbaz, M., Naeem, H., Batool, M., Imran, M., Hussain, M., Mujtaba, A., Alsagaby, S.A., Al	2024	Food Science and Nutrition	12(9)	6157-6173



		Abdulmonem, W., Ghorab, A.H., Ghoneim, M.M., Shaker M.E., Abdelgawad, M.A. and Jbawi, E.A				
12.	Antioxidative enzymes, phytochemicals and proximate components in jujube fruit (<i>Ziziphus mauritiana</i> L.) with respect to genotypes and harvest maturity	Zohaib Asghar, Z., M. Amin, S. Ullah, H. Hassan , U. Habiba, K. Razzaq, I. A. Rajwana, G. Akhtar, H. N.Faried , M. Aiyub , S. Nayab , A. Naz , S.B. Lukas , O. Simsek ,T. Izgü , H. A. Masood, K.	2024	LWT	60	104504
13.	Assessing genetic potential and development of crosses for breeding cotton (<i>Gossypium hirsutum</i> L.) against drought.	Sarwar MKS, A Ghaffar, S Ahmad, SU Rehman, U Waheed	2024	Asian J. Agric Biol.	01	Yet not issued
14.	Assessing groundwater monitoring in the Southern Bari Doab and guidance for strengthening groundwater monitoring across Punjab	Abdul Raheem, Saifullah Muhammad, Jehang ir Punthakey, Irfan Ahmad Baig	2024	Australian Centre for International Agricultural Research (ACIAR)	Volume NO 1 REPOR T NO 6	1-33
15.	Assessing the role of conservation strips in enhancing beneficial fauna in the wheat-cotton agricultural system in Punjab, Pakistan	Haider, S., Khan, F. Z., Gul, H. T., Ali, M., & Iqbal, S.	2024	Pakistan Journal of Zoology	56	1-9



16.	Assessment of apple production in Killa Saifullah, Balochistan: current practices, challenges, and prospects	Khan, K., W.U. Rehman, M. Kamran, H. Kakar, M.Fahim, S. Ullah, S. Khan, D. Muhammad, I. Ullah.	2024	International Journal of Social Sciences Bulletin	2(4)	1046-1052
17.	Assessment of genetic diversity in cotton genotypes using simple sequence repeat (SSR) markers: insights from interspecific and intraspecific variations	Muhammad Arslan, Akash Fatima, Fatima Javeria, Sehrish Ijaz, Umair Riaz, Gulnaz Saleem, Mounir M. Bekhit, Milad A. Mezher & Rashid Iqbal	2024	Genetic Resources and Crop Evolution	72	3661–3670
18.	Assessment of silver and graphitic carbon nitride doped cadmium selenide quantum dots as an efficient dye degrader and antibacterial agent: In silico molecular docking analysis.	Umm-e-Rubab, Ali Haider, Iram Shahzadi, Anwar Ul-Hamid, Hameed Ullah, Sherdil Khan, Atif Shahbaz, Ahmed M. Fouda, Muhammad Ikram	2024	Materials Today Sustainability	28	
19.	Automated identification of citrus fruits nutrients through non-destructive analysis	Shahid Iqbal, Aamir Hussain, Salman Qadri, Muhammad Talha Jahangir	2024	Journal of Agriculture and Biology	2(2)	240-250
20.	Bio-ecology and management approaches of yellow peach moth, <i>Conogethes punctiferalis</i> (Lepidoptera: Crambidae)	Ramzan, M., Pang, T., Shi, L., Naeem-Ullah, U., Saeed, S., Zhang, T., ... & Zhang, Y.	2024	European J Entomol. 121(1), 234-251	121	doi: 10.14411/eje.2024.025

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21.	Calcium carbide induced ethylene regulates seed dormancy and post-germination growth of sweet pepper	Ahmed, W., M.N. Akhtar, M.W. Akhtar, M.N. Hanif, A.S. Din and A. Mahmood	2024	Pakistan Journal of Agricultural Research		
22.	Changes in physicochemical quality and antioxidant system of grapes by kaolin applied to reduce bunch compactness	Khalil, U., I.A. Rajwana, K. Razzaq, G. Mustafa and A. Sarkhosh.	2024.	The Journal of Horticultural Science and Biotechnology.	100 (3)	. 396-405
23.	Characterization and end-use perspectives of modified cereal brans: a step towards waste valorization.	Usman, M., F. Ahmad, I. Pasha, M. A. Nasir, M. Subtain and S. Ahmad.	2024	Journal of Biomass Conversion and Biorefinery.	15	17727-17737
24.	Characterization of Strubbelig-Receptor Family (SRF) Related to Drought and Heat Stress Tolerance in Upland Cotton (<i>Gossypium hirsutum</i> L.)	F Ahmad, SU Rehman, MHU Rahman, S Ahmad, Z Khan	2024	Agronomy	14	1933
25.	Communities of arid bees as affected by weather factors and foraging resources in Southern Punjab, Pakistan.	Akram, W., Sajjad, A., Ali, M., Khurram, H., & Rafique, M. K.	2024	Pakistan Journal of Zoology.	Early access	https://dx.doi.org/10.17582/journal.pjz/20240218031246
26.	Comparative analysis of quality and microbial load in fresh, raw and commercial milk.	Arif, A., S. Abbas, M. Sibte-Abbas, M. Usman, M. Z. Ali, and S. Hussain	2024	Insights-Journal of Life and Social Sciences.	2	54-59
27.	Comparative assessment of pomological and biochemical traits in apricot genotypes from	Alam, A., M.T. Akram, R. Qadri, R.M. Amir, S.A.M. Bokhari, F. Hussain, I. Ali, T. Hussain, I.	2024	Journal Advances of Nutrition, Science and Technology	4	91-102



	Gilgit Baltistan.	Ali, G. Abbas and S. Asghar.				
28.	Comparative nutritional analysis of various loquat cultivars and their value-added products.	Raza, N., Hassan, E., Mehmood, M. A., Amrao, L., Shahbaz, M., Mugabi, R., Sharma, A., Uddin, J., & Nayik, G. A. (2025).	2024	Journal of Agriculture and Food Research	19	101706
29.	Comparing the efficacy of single and multiple visits by honey and solitary bees on sunflower seed production.	Ali, Q., Ali, M., Khan, F. Z. A., & Awan, T. H.	2024	Sociobiology	71	e10425- e10425
30.	Correlation of body mass index, with cardiometabolic and cardiorespiratory fitness in health care professionals of	Esha Akhtar, Imran Ahmad Khan*, Perwasha Perwasha, Qurat ul Ain.	2024	JPMA	74	
31.	Cultivating resilience in wheat: mitigating arsenic toxicity with seaweed extract and <i>Azospirillum brasilense</i> .	Zaheer, M.S., Aijaz, N., Hameed, A., Buttar, N.A., Rehman, S., Riaz, M.W., Ahmad, A., Manzoor, M.A. and Asaduzzaman, M	2024	Frontiers in Microbiology	15	doi.org/10.3389/fmicb.2024.1441719
32.	Developing iron and iodine enrichment in tomato fruits to meet human nutritional needs.	Ikram NA, MA Abdalla, KH Mühling	2024	Plants	13	3438
33.	Development and quality evaluation of amaranth and soybean supplemented bread	Umair Ahmad, Shamas Murtaza, Umair Raza, Ushna Momal, Ali Iqbal, Umer Bin Zarar, Hafiza Mamoona	2024	Agrobiological Records	ABR-24-280	113-120



Ahmad, Hira Jabeen
and Bushra Iram
Fatima

34.	Development and quality evaluation of cookies enriched with various levels of grapefruit pomace powder	Kausar, T., Saeed, E., Hussain, A., Firdous, N., Bibi, B., Kabir, K., Elkhedir, A.E.	2024	Discover Food	4(1)	65
35.	Development and quality, chemical and sensory evaluation of nutritive herbal blend: quality, chemical and sensory evaluation of nutritive herbal blend.	Manzoor, S., Shahbaz, M., Khan, M. A., Raza, N., Sibte-Abbasi, M., Naeem, H. & Qaisrani, T. B	2024	DIET FACTOR (Journal of Nutritional and Food Sciences)	5	17-23.
36.	Differential growth, morphological characters, and yield of quinoa (<i>Chenopodium quinoa</i> Willd.) genotypes grown on salt degraded soil.	Gul M, NA Ikram, T Abbas, S Iqbal, A Hussain, K Mubeen, S Ullah, N Farooq	2024	Crop Sci.	64	3572-82
37.	Does farm mechanization improve farm performance and ensure food availability at household level? Empirical evidence from Pakistan	Yasar, H., M. H. Raza, M. Faisal, N. Nadeem, N. Khan, H. S. Kassem, K. M. Elhindi and S. Mahmood	2024	Frontiers in Sustainable Food Systems	8	doi:10.3389/fsufs.2024.1453221 (1–14)
38.	Effect of laxative polyherbal paste for loperamide induced constipation in rats.	Imtiaz Gull, Imran Ahmad Khan*, Malaika Bukhari, Kashif Hussain, Muhammad Usman.	2024	Am J Transl	16 (9)	4714-4727
39.	Effect of lotus (<i>Nelumbo Nucifera</i> , G.) rhizome powder as a fat replacer on the quality attributes of	Din, G.M.U., Rubab, Q., Hussain, A., Yaqub, S., Zulfiqar, N., Bibi, B., Ayesha, A., Firdous, N., Asif,	2024	Discover Food	4(1)	158



	muffins	A., Elkhedir, A.E.				
40.	Effect of plant growth regulators on water relations, proximate composition, and ascorbate/glutathione cycle of late-sown wheat under saline conditions.	Hafeez MB, A Ghaffar, N Zahra, N Ahmad, A Raza, J Li	2024	J. Crop Health	76	1679-92
41.	Effect of pruning heights on vegetative and reproductive response of <i>Rosa Gruss-an-teplitz</i> .	Majeed, A.R., I. Ahmad, M. Al-Salem, T. Saeed, T. Ahmad, K. Mubeen, M. Nadeem, M. Yousif, M. U. Khan, U. Farooq and M. Waqas.	2024	Plant Health	03 (01)	19-25
42.	Effect of Tapioca and Tragacanth based edible coatings on the physiological, chemical, microbial, and phytochemical quality of tomato fruits	Fatima, H., Ainee, A., Kausar, T., Murtaza, M.A., Hussain, A., Raza, M.S., Sidrah, Bibi, B., Ayesha, A., Arif, M.R., Zia, M., Firdous, N.	2024	Food Safety and Health	—	—
43.	Effect of water chestnut based edible coating on the physicochemical quality and shelf life of apples	Mahnoor, Ainee, A., Hussain, A., Kausar, T., Bibi, B., Kabir, K., Ayesha, A., Yaqub, S., Firdous, N., Nisar, R., Mahdi, A.A.	2024	Discover Applied Sciences	6(8)	442
44.	Effectiveness of fenugreek seeds against polycystic ovarian syndrome	Umrah Zafar , Umar Ali Amjad , Bareera Ghaffar, Arooj Fatima,	2024	Diet factor	Volume 5	2789-8091
45.	Effects of biorational approaches and synthetic pesticides on	Jalali AI, M Ali, HM Hammad, FZ Ahmad Khan	2024	Pak. J. Zool.	56	1-9



fall armyworm
management and
arthropod diversity in
maize

46.	Effects of spray drying and ultrasonic assisted extraction on the phytochemicals, antioxidant and antimicrobial activities of strawberry fruit	Hussain, A., Batool, A., Yaqub, S., Iqbal, A., Kauser, S., Arif, M.R., Ali, S., Gors, F.I., Nisar, R., Firdous, N., Fatima, H.	2024	Food Chemistry Advances	—	100755
47.	Efficient RhB degradation and antimicrobial activity with molecular docking study of polymers doped ZnSe nanostructure,	Ahmad Irshad, Muhammad Ikram, Ali Haider, Anum Shahzadi, Anwar Ul-Hamid, Hameed Ullah, Muhammad Nisar, Amel Ayari-Akkari,	2024	Inorganic Chemistry Communications		170 (3)
48.	Efficient RhB dye degradation and E. coli inactivation using g-C ₃ N ₄ /CS/ZnO nanocatalyst: In silico molecular docking studies.	Ikram, M., Haider, A., Shahzadi, A., Bari, M.A., Ul-Hamid, A., Ullah, H., Khan, S. and Bajaber, M.A.	2024	Diamond and Related Materials		147
49.	Elevated auxin levels during the reproductive stage improve rice crop productivity and grain	Naveed M, N Sarwar, K Mubeen, U Rehman, O Farooq, A Wasaya,	2024	Acta Agrobot.	77	188711
50.	Embryogenic callus induction and regeneration efficiency in date palm.	Nadeem, S., P. Khanum, Z. Khan, K. Razzaq, M, Ikhlaq, M. Rashid, S. Younas.	2024	Plant Bulletin	3(2)	235-245
51.	Entomopathogenic fungi a need of hour in management of Bactrocera zonata: Challenges and	Sharif, U., Qayyum, M.A., Hameed, A., Anjum, S., Naeem-Ullah, U., Ishtiaq, M., Taha, H	. 2024	Biol. Clin. Sci. Res. J., 2024: 1050	5	doi: https://doi.org/10.54112/bcsrj.v2024i1.105



	opportunities					0]
52.	Evaluating the flora and visitor dynamics of Cantonment Garden Multan, Pakistan.	Sami Ullah, S., Gulzar Akhtar., Ishtiaq Ahmad Rajwana., Unsar Naeem Ullah., Muddassar Yasin., Tahir Saeed., Iftikhar Ahmad., and Muti Ullah	2024	Journal of Pure and Applied Agriculture	9	74-83
53.	Evaluating user experience and functionality in blood pressure mobile applications	Zubaida , Aiman Mujtaba Khan , Amjad Ali , Imran Khurshid , Nadeem Iqbal Kajla, Muhammad Ahsan Jamil	2024	Journal of Statistics, Computing and Interdisciplinary Research	6(2)	113-132
54.	Evaluation of carob tree (<i>Ceratonia siliqua</i> L.) pods, through three different drying techniques, and ultrasonic assisted extraction, for presence of bioactives	Hussain, A., Arif, M. R., Ahmed, A., Laaraj, S., Firdous, N., Ali, M. Q., Elfazazi, K.	2024	South African Journal of Botany	173	388–396
55.	Evaluation of peel, flesh, and kernel of mango (<i>Mangifera indica</i> L.) for phytochemicals and application as functional ingredients in bakery formulation	Hussain, A., Rehman, A., Kauser, S., Ali, A., Arif, M.R., Fatima, H., Firdous, N., Najam, A., Yaqub, S., Nisar, R., Cacciotti, I.	2024	Nutrire	49(2)	45
56.	Exploring fruit ripening methods: Conventional, artificial, and novel	Nasir, U., A. Ismail, M. Riaz, K. Razzaq, S. Ali, A. Hussain, M. Ameen, A. Saif,	2024	Food Control	165	110626



	approaches for quality and health	F. Aslam and C.A.F. de Oliveira				
57.	Exploring seaweed potential to induce cold resistance in tomato.	Bashir, M.J., T. Ahmad, M.U. Khan, M.A.B. Saddique, S.A.M. Bokhari, M. Tariq, H. Ishtiaq, M. Naseer and , A.M. Alvi.	2024	Journal of Agriculture and Biology	02(2)	82-90
58.	Exploring the synergistic effect of animal manure and biochar to improve maize growth and productivity under water deficit condition	Fatima, M., M. Nazim, T. U. Haq, Q. U. A. Sadiq, A. Hussain, and M. Ali.	2024	Agrobiological Records	17	83-90
59.	Factors influencing marketed surplus of tomatoes in Punjab, Pakistan	Aslam, M., Akhtar, A., Yasin, M., et al.	2024	Scientific Papers Series – MEEARD	24(3)	83–90
60.	Field evaluation of insecticides against pink bollworm, <i>Pectinophora gossypiella</i> and their effect on beneficial fauna	M. Ishtiaq M. Qayyum M. A. Majid U. Waheed M. Akram S. Saeed M. A. Farooq D. J. Wright	2024	International Journal of Tropical Insect Science	44	doi.org/10.1007/s42690-024-01401-7
61.	Foliar iodine application: a strategy for tomato biofortification and	Ikram NA, A Ghaffar, AA Khan, F Nawaz, A Hussain	2024	J. Plant Nutr.	48	540-556.
62.	Fresh vegetable purchase via mobile commerce in Pakistan	Aslam, M., Li, Z., Gujjar, M. A., et al.	2024	Scientific Papers Series – MEEARD	24(4)	59–68
63.	Fungal disease identification of tomato leaf's using deep learning	Aamir Hussain, Jamshed Iqbal Janjua, Javid Ahmed Malik,	2024	International Journal of Social Science Archives	7	820-833



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64.	Genetic variability in high yielding tomato (<i>Solanum lycopersicum</i>) Lines.	Ishtiaq, H.M., T. Ahmad, S. A.M. Bokhari, M. A.B. Saddique, S.F. Usmani, M. Tariq, A. Tufail, , M.J. Bashir, A.M. Alvi, M.T. Akram and M. Naseer	2024	Journal of Food and Agricultural Technology Research	3(2)	57-65
65.	Genetic variability of <i>Xanthomonas citri</i> pv. Citri in Southern Punjab region of Pakistan	Raza, S., H. Riaz, F. Zia, S. Kanwal, S. Khan, M. Hassan, S. Ullah, M.A. Qayyum, N. Ahmed, M. Imran, M.S. Zafar, M. Zain	2024	BioScientific Review	6(4)	116-123
66.	Genome-wide analysis and prediction of chloroplast and mitochondrial RNA editing sites of AGC gene family in cotton (<i>Gossypium hirsutum</i> L.) for abiotic stress	F Ahmad, M Abdullah, Z Khan, P Stêpieñ, SU Rehman, U Akram	2024	BMC Plant Biology	24	888
67.	Grafting of watermelon onto local and exotic rootstocks as mean to improve plant growth, production and quality.	Ziaf, K., I. Mumtaz, Y. Majeed, M.A. Ghani, F. Shireen, I. Ahmad, N. Faried, H. Mujahid and S. Riasat.	2024.	Pakistan Journal of Agricultural Sciences.	61	1147-1156.
68.	Heterologous expression of distinct insecticidal genes in potato cultivars encodes resistance against potato tuber moth, <i>Phthorimaea</i>	Salim, M., Bakhsh, A., Naqqash, M.N. and Gökçe, A.	2024	Journal of Plant Diseases and Protection	131	1493-1505



operculella
(Zeller)(Lepidoptera:
Gelechiidae)

69.	ICT adoption impact on climate awareness among university graduates	Aslam, M., Li, Z., Naeem, M., et al.	2024	Agrociencia	58(8)	doi:10.47163/agrociencia.v58i8.3091
70.	ICT adoption in agriculture: Implications for rural development	Aslam, M., Li, Z., Alwahibi, M. S., et al.	2024	Cuadernos de Desarrollo Rural	21	doi:10.11144/Javeriana.cdr21.dict
71.	Identification and characterization of begomoviruses-whitefly complex infecting soybean in Pakistan	Kanwal, S., H. Riaz, M. Ashfaq, S. Saeed, F. Zia, S. Khan, S. Raza, M. Imran, M. Afzal, F. Deebea, M. Yasin, F. Rafeeq, K. Fatima.	2024	Journal of Agriculture and Biology	2(2)	120-127
72.	Identification, characterization and genetic transformation of lignin and pectin polysaccharides through CRISPR/Cas9 in <i>Nicotiana glauca</i>	Ahmed, R.I., Ren, A., Alshaya, D.S., Fiaz, S., Kong, Y., Liaqat, S., Ali, N., Saddique, M.A.B*, Attia, K.A. and Taga, M.U.H	2024	Functional & Integrative Genomics	24	1 - 15
73.	Impact of field evolved resistance on biological parameters of nontargeted <i>Aedes aegypti</i> populations	Batool, N., M. A. Farooq, W. J. Ahmed, Noureldeen, A. Alghamdi, H. Darwish, N. H. Ashri, M. N. Naqqash	2024	Ecotoxicology	34	https://doi.org/10.1007/s10646-024-02842-z
74.	Impact of government health expenditure, energy use and ecological foot prints	Yasin, M., S. Saeed, M.T. Amin, D.Q. Gillani and I. Javed	2024	Journal of Social Sciences Advancement	5	193–197



75.	Impact of microplastic on roadside vegetable cultivation: A Case study of agricultural farmland.	Ahmad, T., H. Hussain, A. Sabir, M. Irfan, A. Ghafar, M. Jafir, M.A. Sabir, U. Zulfiqar, M.A. Binobead and B. M. Al-Munqedhi.	2024	Polish Journal of Environmental Studies	34(X)	1-14
76.	Impact of fermentation through synergistic effect of different lactic acid bacteria (mono and co-cultures) on metabolic and sensorial profile of mulberry juice	Sanabil Yaqoob, Aysha Imtiaz, Kanza Aziz Awan, Mian Shamas Murtaza, Bismillah Mubeen, Afusat Aregbe Yinka, Turkson Antwi Boasiako, Tawfiq Alsulami, Abdur Rehman, Ibrahim Khalifa, Yongkun Ma.	2024	Journal of Food Measurement and Characterization	18	9364-9384
77.	Importance of turnip (<i>Brassica rapa</i>) and impact of different fertilizers on its growth.	Bhatti, H.M., T. Ahmad, A. M. Hamzah, N. Iqbal, A. Hamza, M. Mahmood, E.U. Haq, M. Shehzad and U. Shoukat.	2024	Zoo Botanica	2(2)	73-83
78.	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	2024	MDPI Agriculture	15(1)	1-21
79.	Incidence and distribution of begomoviruses (BGMV) infecting ornamental plants in Multan Region, Pakistan	Zia, F., H. Riaz, M. Ashfaq, S. Raza, S. Khan, S. Kanwal, M. Hassan, M. Ishtiaq, M.S. Zafar, M. Imran, S.F. Arshad, S. Shafiq.	2024	Pakistan journal of biochemistry and biotechnology	5(2)	31-40



80.	Influence of <i>Bacillus thuringiensis</i> and plant extracts on different instars of <i>Trilocho varians</i> (Lepidoptera: Bombycidae) under laboratory conditions	M. Ishtiaq, S. Saba, W. A. Panhwar, S. A. Larik, A. A. Khaliq, M. Ramzan, A. A. Alsahli, M. Bourhia	2024	Proc. of the Entomol. Soc. of Washington, 126(3), 300-306	126	DOI:10.4289/0013-8797.126.3.300
81.	Insecticidal crude protein from <i>Citrullus colocynthis</i> L.(Cucurbitaceae) against whitefly, <i>Bemisia tabaci</i> mitotype Asia II-1	Hameed, O., Qayyum, M. A., Saeed, S., Losey, J. E., Ugine, T. A., Naeem-Ullah, U., & Ali, M.	2024	Tropical Insect Science	44	10.1007/s42690-024-01360-z
82.	Insecticidal efficacy of green synthesized silver nanoparticles, <i>Bacillus thuringiensis</i> and Triazophos against <i>Pectinophora gossypiella</i>	Khan, Muhammad Nadeem, Zhihang Zhuo, Mirza Abdul Qayyum, Habib Ali, Danping Xu, Yasir Niaz, Unsar Naeem-Ullah et al.	2024	Emirates Journal of Food and Agriculture	36	doi: 10.3897/ejfa.2024.120966
83.	Insights into morphological, physio-biochemical, and phytoremediation alterations in ornamental plants under nickel stress.	Amir Hameed, Gulzar Akhtar, Nazar Faried, Sami Ullah, Muhammad Asif Shehzad, Ishtiaq A. Rajwana, Kashif Razzaq, Tahir Saeed, Iftikhar Ahmad, Muhammad Rizwan Shah	2024	Journal of Agriculture and Food	5	37-54
84.	Interactive effect of zinc and phosphorus application on growth and yield of Bt cotton.	Usman M, HM Hammad, MS Shahzad, AD Abid, A Anwar, M Shaheen, S Ahmad, MN Shah, MB Junaid, I Haider, M Akhtar, MA Al-Dosary	2024	Pol. J. Environ. Stud.	Yet not issued	



85.	Investigating the catalytic and antibacterial behavior of cesium-doped MoO ₃	Muhammad Ikram, Ali Haider, Muhammad Bilal, Anwar Ul-Hamid,	2024	Materials Today Sustainability	28	
86.	IoT based smart vehicular identification using machine learning techniques	Abdul Aziz, Uzair Ahmad, Shoab Saleem, Munahil Khursheed, Munir, A. ., Manal Ahmad, & Muhammad Ahsan Jamil.	2024	Journal of Computing & Biomedical Informatics	7(2)	
87.	Machine learning-based heart disease classification for symptom-driven diagnostics	Muhammad Talha Jahangir, Tahir Abbas, Muhammad Hamza Khan, Amjad Ali, Burhan Mughees, Afaq Ahmad, Muhammad Ahsan Jamil	2024	International Journal of Innovation in Science & Technology	6(4)	1768-1788
88.	Marketing system and consumer preferences for sweet & salty potatoes in Multan	Iqbal, M. A., Qasim, M. A., Aslam, M., et al.	2024	Pakistan J. of Agri., Agri. Engg. & Vet. Sci. (PJAAEVS)	39(2)	1–15, doi:10.474 32/2024.4 0.1.3
89.	Melatonin dose-mediated increment in growth, floral production, essential oils yield and composition in marigold.	Yousif, M. T. Ahmad, M.A. Alasasfa, O.M. Al-Zoubi, T. Saeed, I. Ahmad, M.A. Iqbal.	2024	Journal of Ecological Engineering	25(12)	157-169
90.	Metagenomic unveils the promotion of mainstream PD-anammox process at lower nZVI concentration and inhibition at higher dosage.	Hafiz Adeel Ahmad, Xiaojie Sun, Zhibin Wang, Shakeel Ahmad, AmroEl-Baz, TaehoLee, Bing-JieNi, Shou-Qing Ni,	2024	Bioresource Technology	131168	



91.	Modelling climate change impacts and adaptation strategies for managing groundwater resources in Southern Punjab	Abdul Raheem, Saifullah Muhammad, Jay Punthakey, Ghulam Zakir-Hassan, Irfan Ahmad Bai	2024	Gulbali Institute	ISBN (Electronic) 9781864674583	1-74
92.	Modulating physiological and antioxidant responses in wheat cultivars via foliar application of silicon nanoparticles (SiNPs) under arsenic stress conditions	Ahmad, Z., R. Younis, T. Ahmad, M.A. Iqbal, A. Artyszak, Y. M. Alzahrani, H.F. Alharby and H. Alsamadany.	2024	Silicon		16 5199-5211
93.	Monitoring insecticide resistance in <i>Bemisia tabaci</i> mitotypes in the South Punjab region of Pakistan	RM Shamraiz, S Saeed, MA Qayyum, Z Khan	2024	International Journal of Tropical Insect Science		44 1829-1941
94.	Morphogenetic characterization of <i>Xanthomonas citri</i> pv. <i>citri</i> and its management	Ali, S., Hameed, A., Binyamin, R., Alam, M.W., Aslam, H.M.U., Riaz, H., Zaheer, M.S., Manoharadas, S., Ali, H.H., Niaz, Y. and Baran, N.	2024	Journal of King Saud University- Science		36 P.103339.
95.	Multi-frequency sonofragmentation with mono and co-cultures of LAB synergistically enhance mulberry juice: Evidence from metabolic, micromorphological, sensorial, and computational approaches	Sanabil Yaqoob, Aysha Imtiaz, Abdelaaty A. Shahatc, Ibrahim Khalifa, Fahad Al-Asmari, Sajid Maqsood, Mian Shamas Murtaza, Riaz Ullah , Jian-Ya Qian and Yongkun Ma.	2024	Ultrasonics Sonochemistry		111 107117



96.	Multivariate analysis for agronomic, physiological, macro, and micronutrient traits of exotic vegetable amaranth genotypes.	Abrar, M., T. Ahmad, S. Iqbal, R.N.U. Rehman, S.A.M. Bokhari, Z. Ahmad, A. Artyszak, A. Hashem, J. Alkahtani and E.F. Abd Allah.	2024	BMC Plant Biology	24	1137
97.	New euungulate fossils from the middle siwalik subgroup of the Potwar Plateau of Northern Pakistan	Ara C, Yasin R, Ishaq HM, Naz S, Sultana T, Samiullah K, Al-Misned FA, Ullah K, Anderson HE, López-Torres S, Abbas A.	2024	Geological Journal.	160 (1)	133-162
98.	Nutritional and physio-chemical comparison of fresh, raw and commercial milk	Arif, A., S. Abbas, M. Sibte-Abbas, S. Ahmed, M. Usman, and S. Ilyas.	2024	Insights-Journal of Health and Rehabilitation	2	309-317
99.	Nutritional and sensory evaluation of bread fortified with defatted chia flour	Noor-us-Sana, Muhammad Sibte-Abbas, Muhammad Usman, Rimsha Umar and Anam Arif.	2024	UCP Journal of Science & Technology.	2	09-17
100.	Organizational climate & sustainability in agribusiness	Aslam, M., Li, Z., Ali, M. A.	2024	Custos e @gronegocio online	20(1)	72-89
101.	Overexpression of Auxin/Indole-3-Acetic Acid Gene TrIAA27 enhances biomass, drought, and salt tolerance in <i>Arabidopsis thaliana</i> .	Iqbal, M. Z., Y. Liang, M. Anwar, A. Fatima, M. J. Hassan, A. Ali, Q. Tang, and Y. Peng.	2024	Plants.	13	2684
102.	Performance evaluation of compost of windrow turner machine using agriculture waste	Sarfraz Hashim, Rehan Bashir, Alamgir Akhtar Khan, Asif Ali	2024	Sustainability	16	7779



	materials	Mirani, Muhammad Shoaib, Abdul Razzaq, Farrukh Ehsan, Faseeha Munir				
103.	Phosphorus application improved grain yield, phosphorus use efficiency and economic returns of different pearl millet genotypes grown on alkaline soil	Majeed A, MB Khan, A. Dawood, Y. Mehmood, S. Ul- Allah, M Hussain	2024	J. Soil Sci. Plant Nutr.	25	382–392
104.	Phosphorus biofertilizer as an efficient fertilizer for improving nutrient uptakes and corn yield	Ahmed. W., Ayesha. Z., Mahmood. A., Ghaffar. A., Siddiq. S., Ikram, R.M., Kamran, A., Ud-Din, A.S., Jahan, T.S.	2024	Agricultural Science Journal		
105.	Physicochemical and phytochemical analysis of three melon fruit (canary melon, watermelon, and muskmelon) peels, and their valorization in biscuits development	Hussain, A., Laaraj, S., Tikent, A., Elfazazi, K., Adil, M., Parveen, S., Firdous, N.	2024	Frontiers in Sustainable Food Systems	8	1444017
106.	Physicochemical profiling and health risk evaluation of effluents from textile industries: insights from Faisalabad, Pakistan	Hina Sattar, Muhammad Anwar-ul-Haq, Humera Aziz, Umair Riaz, Ahmad Mahmood, Muhammad Rizwan, Munaza Naseem	2024	Toxicology and Environmental Health Sciences	17	165–176
107.	Physicochemical, techno-functional, and proteolytic effects of various hydrocolloids	Mian Shamas Murta z, Aysha Sameen, Abdur Rehman, Nuzhat Huma,	2024	Frontiers in Sustainable Food Systems.	8	1440310



	as fat replacers in low-fat cheddar cheese	Fatma Hussain, Shahzad Hussain, Ilaria Cacciotti, Sameh A. Korma, Salam A. Ibrahim and Yong Kun Ma				
108.	Phytocure drug alternatives to manage antimicrobial resistance in poultry transmitted human pathogens	Abbas, S. M. N., U. Farooq, N. Firdous, A. Shafi, H. Malathi, A. Batool, M. R. Kumar, S. Tahir and M. Asif Shah.	2024	CyTA – Journal of Food	22	9-Jan
109.	Postharvest quarantine heat treatments attenuate fruit physiological losses, advance fruit ripening and improve anti-oxidative quality of two novel mango (<i>Mangifera indica</i> L.) cultivars during simulated air conditions.	Rehman, A.U., I. A. Rajwana, M. Amin, S. Ullah, A. Hussain, B. A. Saleem.	2024	Xi'an Shiyou Daxue Xuebao (Ziran Kexue Ban)/Journal of Xi'an Shiyou University, Natural Sciences Edition.	9	405-424
110.	Potassium and zinc improves physiological performance, nutrient use efficiency, and productivity of wheat.	Nawaz A, MA Bashir, W Ahmed, I Ahmad, A Rehim, RM Ikram, SSH Shah, MY Khurshid, MJ Rusan, R Lubani, S Saleem, TU Haq and MA Ali	2024	Front. Plant Sci.	15	1-10
111.	Potassium supplementation mitigates flooding stress by regulating antioxidant enzymes, photosynthetic performance, yield attributes, and lint	Sarwar N, A Wasaya, TA Yasir, K Mubeen, M Hussain, MM Javaid, K Mehboob, A El Sabagh	2024	J. Plant Nutr.	19	3754-3766



	quality in cotton plants					
112.	Potential of kaempferol and caffeic acid to mitigate salinity stress and improving potato growth.	Ramzan, M., S.T.A. Haider, M.B. Hussain, A. Ehsan, R. Datta, T.A. Alahmadi, M.J. Ansari, and S.A. Alharbi.	2024	Scientific Reports	14	21657
113.	Preparation of protein and mineral enriched chapatti using hybrid wheat, chickpea and barley	Yaqoob, S., S. Ahmad, A. Naz, M.A. Rehman, M.S. Raza, K. Razzaq, and Z. Ali.	2024	Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences,	67	240-251
114.	Pumpkin seeds; an alternate and sustainable source of bioactive compounds and nutritional food formulations	Fatima, H., Hussain, A., Kabir, K., Arshad, F., Ayesha, A., Bibi, B., Ahmed, A., Najam, A., Firdous, N., Yaqub, S., Zulfiqar, N.	2024	Journal of Food Composition and Analysis	—	106954
115.	Quantification of spatial-temporal light interception of crops in different configurations of soybean-maize strip intercropping.	Jin, Fu, Z. Wang, H. Zhang, S. Huang, M. Chen, T. Yong, X. Wang, F. Yang, J. Liu, L. Yu, T. Pu, A. Fatima, R. Rehman, Y. Yan, W. Yang, Y. Wu.	2024	Front. Plant Sci.	15	1376687
116.	Risk assessment of pesticide residues in cauliflower grown in the vicinity of Multan city, Pakistan.	Hanif, M.N., T. Haq, M.N. Akhtar, A. Hussain and A. Matloob	2024	Sarhad Journal of Agriculture	40(4)	1164-1171
117.	Role of smart agriculture techniques in food security: A systematic review	Ahmad, T., Ahsan, S., Farooq, M. A., Gulzar, M., Mubeen, M., Hussain, A., Ahmad, A., Asif, A.,	2024	Journal of Agricultural and Crop Sciences	—	—



		Kauser, S., Najam, A., Sidrah, Firdous, N.				
118.	Salicylic acid associated modulation of physiological attributes of heat tolerant and heat sensitive tomato genotypes results in higher yield.	Shaheen, MR, R Hussain, I Khalid, H.N. Faried and M Ahsan.	2024	Pakistan Journal of Botany	56(2)	1-8
119.	Salt stress effects on growth, physiology, and ionic concentrations in hydroponically grown barley genotypes.	Sadiq, Qurat-Ul-Ain., M. Nazim, T. Ul-Haq, M. Fatima, A. Hussain, M. Ali, B. Mathpal, M. S. Alwahibi	2024	Journal of King Saud University - Science	36(10)	103448
120.	Screening of musculoskeletal disorders and levels of depression in transgender people of Multan.	Maryam Wisal, Imran Ahmad Khan*, Maliha Khalid Khan.	2024	JPMA	74(12)	2145-2149
121.	Socio-economic advantages and climate adaptation in sustainable vs. conventional cotton: evidence from Pakistan	Mehmood HZ, Y S-Alotibi, A Ali, A Ali, S Ali, MR Muzamil, SIA Shah	2024	Front. Sustain. Food Syst.	8:1435-747	1-13
122.	Soil lithium affects carrot growth by changing cation concentrations and physiological attributes	Bakhat HF, K Rasul, ABU Farooq, HM Hammad, S Afzal, S Abbas, GM Shah, F Rabbani, S Fahad, O Gabrijel, MI Rashid	2024	Plant Soil Environ.	71	259-268
123.	Solitary bees are more efficient pollinators of sponge gourd than giant honeybees and syrphid flies	Abdullah, S., Ali, M., Khan, F. Z., Sajjad, A., Qayyum, M. A., & Ahmad, N.	2024	Sociobiology	71	e10279-e10279



124.	Spectral intelligence: AI-driven hyperspectral imaging for agricultural and ecosystem applications	Ali, F., Razzaq, A., Tariq, W., Hameed, A., Rehman, A., Razzaq, K., Sarfraz, S., Rajput, N.A., Zaki, H.E., Shahid, M.S. and Ondrasek, G	2024	Agronomy	14(10)	1-24
125.	Sprayable RNAi for silencing of important genes to manage red palm weevil, <i>Rhynchophorus ferrugineus</i> (Coleoptera: Curculionidae)	Sattar, M.N., Naqqash, M.N., Rezk, A.A., Mehmood, K., Bakhsh, A., Elshafie, H. and Al-Khayri, J.M.	2024	Plos one	19	p.e0308613.
126.	Sublethal effect of emamectin benzoate on age-stage, two-sex life table and population projection of red palm	Rezk, A.A., Naqqash, M.N., Sattar, M.N., Mehmood, K., Elshafie, H. and Al	2024	Scientific Reports	14	p.22565
127.	Sugarcane cultivation amidst climate change challenges: An in-depth review of mitigation strategies and environmental resilience	Muhammad Mudassar ^{1*} , Umair Riaz ² , Izhar ul Haq Awan ³ , Umar Maqsood ⁴ , Muhammad Awais Junaid ⁴	2024	Global Academic Journal of Agriculture and Bio sciences	6	90-99
128.	Supplemental sodium nitroprusside and spermidine regulate water balance and chlorophyll pigments to improve sunflower yield under terminal drought	Hussain, I., M.A. Shehzad, G. Akhtar, K.S. Ahmad, K. Mubeen, W. Hassan, H.N Faried, Shabbir Ahmad	2024	ACS Omega	9 (28)	30478-30491
129.	Synergistic effect of biochar, phosphate fertilizer, and	Ma W, P Luo, S Ahmed, HS Hayat, SA Anjum, L Nian, J	2024	Plants	13	3333



	phosphorous solubilizing bacteria for mitigating cadmium (Cd) stress and improving maize growth in cd-contaminated soil	Wu, Y Wei, W Ba and FU Haider				
130.	Synergistic effect of samarium and PVP doped MgO nanostructures for RhB degradation and inhibition of DNA gyrase with molecular docking studies.	Ayesha Hussain, Ali Haider, Anum Shahzadi, Anwar Ul-Hamid, Hameed Ullah, Ahmed M. Fouda, Muhammad Ikram	2024	Inorganic Chemistry Communications	170	
131.	Synergistic effects of barium and PVP-doped Zn-Al layered double hydroxide for catalytic and antibacterial applications with molecular docking studies.	Khan, S.A., Imran, M., Haider, A., Shahzadi, I., Waqas, M., Ul-Hamid, A., Ullah, H., Khan, S., Hafez, A.A.A. and Ikram, M.	2024	Materials Chemistry and Physics	324	
132.	Synergistic interactions and reaction mechanisms of biochar surface functionalities in antibiotics removal from industrial wastewater.	Haider, M.I.S., Liu, G., Yousaf, B., Arif, M., Aziz, K., Ashraf, A., Safeer, R., Ijaz, S. and Pikon, K	2024	Environmental Pollution	356	124365
133.	Synthesis and characterization of a fluorescent magnetic molecularly imprinted polymer for enhanced adsorption and selective extraction of pesticides from agricultural waters	Ali Z, Raza N, Hayat M, Khezami L, Khairy M, Almuqri EA, Basher NS, Parveen H, Chaudhary AA.	2024	Frontiers in Nanotechnology.	6	1516133.



134.	The antimicrobial effect of <i>Curcuma longa</i> and <i>Allium sativum</i> decoction in rats explains its utility in wound care.	Imrah Ahmad Khan, Maliha Khalid Khan, Muhammad Omer Iqbal*, Sabiha Fatima, Nayla Munawar	2024	Am J Transl	16(10)	6159–6167
135.	The correct combination and balance of macronutrients nitrogen, phosphorus and potassium promote plant yield and quality through enzymatic and antioxidant activities in potato	Hongyang Wang, Yan Yang, Chunguang Yao, Youhong Feng, Huijie Wang, Yunxin Kong, Umair Riaz, Qamar uz Zaman, Khawar Sultan, Shah Fahad & Gang Deng	2024	Journal of Plant Growth Regulation	43	4716–4734
136.	The DsRNA based green pesticide for the control for the Control Of Colorado Potato Beetle, <i>Leptinotarsa Decemlineata</i> Say (Chrysomelidae: Coleoptera).	Tariq, H., Gökçe, A., Naqqash, M. and Bakhsh, A.	2024	Eurasian Journal of Applied Biotechnology	3	doi.org/10.11134/symposium.32
137.	Therapeutic utility of mulligan traction straight leg raise	Saman Iqbal, Imran Ahmad Khan, Maliha Khalid Khan,	2024	Cureus Medical Journal.	16 (11)	
138.	Toxicity and sublethal effect of chlorantraniliprole on multiple generations of <i>Aedes aegypti</i> L. (Diptera: Culicidae)	Batool, N., Abubakar, M., Noureldeen, A., Naqqash, M.N., Alghamdi, A., Al Dhafar, Z.M., Baakdah, F. and Mozûratis, R., 2024.	2024	Insects	15	p.851
139.	Toxicity of different nitrogenous fertilizers	Ali, S., Naeem-Ullah, U., Iqbal, N., Khan,	2024	International Journal of	44	pp.2695-2700



	on <i>Aedes aegypti</i> larvae (Linnaeus) (Diptera: Culicidae)	H.A.A., Abid, A.D., Shahzad, M.S., Saeed, S., Usman, M. and Naqqash, M.N.		Tropical Insect Science		
140	Tracing the diversity of cultivated transgenic cotton in Pakistan by SSR based DNA fingerprinting	Sehrish Ijaz and Muhammad Abubakar Azmat	2024	Agricultural Sciences Journal	6(2)	27-36
141.	Traditional Strategies and Cutting-Edge Technologies Used for Plant Disease Management: A Comprehensive Overview.	Hira Akhtar, Muhammad Usman*, Sarmad Farog Arshad, Muhammad Shahid, Imran Ahmad Khan.	2024	Agronomy	14 (9)	
142.	<i>Trichoderma viride</i> : An eco-friendly biocontrol solution against soil-borne pathogens in vegetables under different soil conditions	Iqbal, S., M. Ashfaq, M. J. Rao, K. S. Khan, A. H. Malik, M. A. Mehmood, M. S. Fawaz, A. Abbas, M. T. Shakeel, S. A. H. Naqvi	2024	Horticulturae	10(12)	1277
143.	Unveiling antibiotic contamination in surface water: A study of the Huaihe River Basin's Huaibei Plain, a significant Chinese herbal medicine planting region.	Wu, H, Liu, G, Liu, R, Arif, M, Li, F, He, M, Si, M, Yue, Z and Hu, H	2024	Science of The Total Environment	933	173125
144.	Use of dehydrated carrot (<i>Daucus carota</i>) pomace and almond (<i>Prunus dulcis</i>) powder for partial replacement of wheat flour in cake: Effect on product	Kausar, T., Laaraj, S., Hussain, A., Noutfia, Y., Bouhrim, M., Mothana, R.A., Noman, O.M., Mubashar, A.,	2024	Frontiers in Sustainable Food Systems	8	1443841



	quality and acceptability	Firdous, N., Ali, S., Yaqub, S.				
145.	Use of <i>Periplaneta americana</i> as a soybean meal substitute: A step towards sustainable transformative poultry feeds	Mustafa, F., Sajjad, A., Tahir, R., Ali, M., Sajjad, M., Abbasi, A., ... & Abd_Allah, E. F.	2024	Insects	15(9)	632
146.	Using non parametric approach to explore groundwater use efficiency of spring maize in Bari Doab, Punjab Pakistan	Tahir Mehmood, Irfan Ahmad Baig, Abdul Saboor, Mukhtar Ahmad	2024	iRASD Journal of Economics	VOLUM E NO 6 ISSUE NO 3	649-663
147.	Valorization of textile waste for removal of Cadmium from contaminated water	Humera Aziz, Munir Ashraf, Muhammad Rizwan, Umair Riaz, Saba Akram, Ali Raza, and Jean Wan Hong Yong	2024	Scientific Report		
148.	Value chain analysis of maize: A case study of smallholders in Southern Punjab, Pakistan	Muneer, A., Mehdi, M., Naseer, M. A., Ijaz, A., Imran, M. A.	2024	Journal of Arable Crops and Marketing	6(1)	27–39
149	Water deprivation and sowing times alter plant–pollination interactions and seed yield in sunflower,	Ali, Q., Ali, M., Khan, F. Z. A., Noureldeen, A., Alghamdi, A., Darwish, H., & Saeed, S.	2024	Plants	13	3194
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155.	Adapting to salinity in the Southern Indus Basin (ASSIB)	Michael Mitchell, Mobin-ud-Din Ahmad, Catherine Allan, Irfan A. Baig, Edward G. Barrett-Lennard, Muhammad Yousif Channa, Sandra Heaney-Mustafa, Mobushir R. Khan, Bakhshal K. Lashari, Jehangir F.	2025	ACIAR GPO Box no 1571 Canberra ACT 2601 Australia	ISBN 978-1-923261-32-7	1-61
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162.	Appraising herbicide tank mixtures for weed suppression, crop safety and net returns in wheat.	Sohail M, A Matloob, A Fareed, K Mubeen, MA Shahzad	2025	J. Agric. Biol.	03	217-231
163.	Artificial ripening of mangoes marketed in Pakistan: Impact on physicochemical properties and occurrence of potentially toxic elements.	Nasir, U., A. Ismail, M. Riaz, K. Razzaq, A. Mahmood, W. Al. Masry, M. Latif, F. Aslam, S. Ali, and C.A. Oliveira.	2025	Journal of Food Safety	45(3)	e70021
164.	Assessing the impact of copper toxicity on soil ecosystems and barley growth: identification of robust indicators.	Hassan W, Zahra QA, Attia AK, Bashir S, Fiaz S, Mohammed AA,	2025	Environmental Monitoring and Assessment	197	563
165.	Assessing the suitability of wheat germplasm for biscuit preparation	Sakhi, H. A., S. Ahmad, M. Sibte- Abbas, S. Yaqoob, A. Umar, A., Z. Ali, U. Farooq, M.A. Ali, M.S. Elshikh, K. Gr ¹ decka- Jakubowska and M. Gancarz.	2025	International Agrophysics	39	11-Jan
166.	Assessment of Cry1Ac and Cry2Ab expression endotoxins in transgenic cotton across growth periods and stages under semi-controlled conditions.	Hanif, M., S. Saeed, Z. Khan, M. Ali and M. Ishtiaq	2025	Mod. Phytomorphol. 19: 199–208.	19	https://doi.org/10.5281/zenodo.200121
167.	Association mapping of leaf rust disease resistance and yield related traits in bread	Shah, M.R., M.A. Sher*, S. Bashir, M.Z. Zafer, D. Law, S. Begum, N.U.	2025	Journal of Plant Diseases and Protection	0	0



	wheat using a high density 90K SNP array	Khan, M.F. Elsadek, K.S. Al-Numair, D.K. Tan and M. Yasin				
168.	Appraising herbicide tank mixtures for weed suppression, crop safety and net returns in wheat.	Sohail M, A Matloob, A Fareed, K Mubeen, MA Shahzad	2025	J. Agric. Biol.	03	217-231
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	resistance and yield related traits in bread wheat using a high density 90K SNP array	M.Z. Zafer, D. Law, S. Begum, N.U. Khan, M.F. Elsadek, K.S. Al-Numair, D.K. Tan and M. Yasin		Protection		
174.	Chemosterilant potential of insect growth regulators for management of <i>Bactrocera cucurbitae</i> (Diptera: Tephritidae)	Kainat, I., S. Saeed, M.A. Farooq, W.A.H. Alkherb, A. Abbasi, F. Baig, U. Liaqat, F.Z.A. Khan, M.I. Akram, M. Hasnain, M. I. Akram, M. Hasnain, N. Y. Rebouh	2025	Insects	16	https://doi.org/10.3390/insects16020137
175.	Cinnamon bark extracts alter the biological and molecular parameters of <i>Bemisia tabaci</i> Gennadius	M. S. Shafi, M. N. Naqqash, N. Iqbal, M. A. Farooq, N. Batool, H. Darwish, S. Saeed, A. Noureldeen, A. Alghamdi, A. A. Hroobi	2025	Microchemical Journal	209	doi.org/10.1016/j.micr.2025.112748
176	Citrus fruit postharvest losses analysis using hybrid features	Minhal Arshad, Muhammad Shehzad, Ramsha Ahmad, Manal Ahmad, Muhammad Yasir Khan and Salman Qadri	2025	Journal of Computing & Biomedical Informatics	8(2)	1-10
177.	Combined application of different phosphorus sources and phosphorus-solubilizing bacteria improved grain yield, quality, and profitability of pearl millet	Majeed A, MB Khan, S UI-Allah, M Akram, M Naveed, M Hussain	2025	J. Plant Nutr.	Yet not issued	1-12

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178.	Comparative analysis of capsicum's growth, leaf nutrients, fruit antioxidants and yield in soilless cultivation systems under partially controlled greenhouse.	Bahar, A.A., Faried, H.N., Ullah, S. et al.	2025	Journal of Soil Science and Plant Nutrition	25	5124–5139
179.	Comparative demographic parameters of fall armyworm (<i>Spodoptera frugiperda</i>) on five host plants	N. Ahmad, M. Ishtiaq*, M. R. Shahid, F. Bai g and R. M. Hassan	2025	Journal of Animal and Plant Sci. 35(1)	35	https://doi.org/10.36899/JAPS.2025.1.0020
180.	Comparative evaluation of <i>Acheta domesticus</i> and <i>Hermetia illucens</i> as alternative protein sources for the growth, health, and meat quality of the broiler.	Mustafa F, Sajjad A, Sajjad M, Ali M, Bashir HS, Abbas MG, Binyameen M and Mozuratis R	2025	Front. Anim. Sci.	6	1531761
181.	Comparison of pheromone lures and sticky pad color for capturing <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae).	Sadique, M.; Ishtiaq, M.; Qayyum, M.A.; Alkherb, W.A.H.; Abbasi, A.; Arshad, M.; Ullah, U.N.; Faried, N.; Akram, M.I.; Rebouh, N.Y.	2025	Insects	16(1)94	1-12
182.	Conversion of pruning waste into biochar-based organomineral fertilizer to improve maize yield and phosphorus use efficiency.	Ayesha Ali, Shakeel Ahmad*, Wazir Ahmed, Muqarrab Ali, Minahil Ather, Ahmed Mahmoud Ismail, Mohammed Refdan Alhajhoj, Saleh Mbark Alturki, Hossam M. Darrag and Jameel M. Al-Khayri	2025	GLOBAL NEST JOURNAL	27	

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183.	Cotton seed quality and storage physiology in relation to harvest and post-harvest storage techniques	Muhammad Nadeem, Abdul Ghaffar, Muhammad Amir Bakhtavar, Shahid Iqbal, Wazir Ahmed, Muhammad Iqbal, Muhammad Najeeb Rasool	2025	International Journal of Agriculture & Biology	33	330408
184.	Design and performance evaluation of a novel portable pedestal fan with cooling effects by Peltier modules	M. S. Ali, S. Saleem, A. N. Shah, S. Hamid, Z. Ali, H. A. U. Rehman, M. Saifullah, E. Hakizimana	2025	International Journal of Energy	—	https://doi.org/10.1155/er/6044104
185.	Determination of fungal species to investigate the aflatoxin contamination in rice (<i>Oryza sativa</i> L.)	E. Alhomaidi, A. Umar, M. Mubeen, L. Dufossé, Y. Iftikhar, A. Das, S. Ghosh and M. Sibte-Abbasi	2025	Phyton-International Journal of Experimental Botany	1	1-14
186.	Development and characterization of new high yielding mustard cultivar suitable for crop rotation due to earliness	Khalid Mahmood, Abdul Majid Khan, Wajiha Anum, Abid Ali, Rana Tauqeer Ahmad, Rana Imtiaz Ahmed, Imran Akhtar, Nadia Manzoor, Asad- ur- Rehman Ch., Naeem Arshad Maan, Noorah AlKubaisi, Mohamed S. Elshikh, Rashid Iqbal, Umair Riaz,	2025	Genetic Resources and Crop Evolution		



		Gang Deng & Saltanat Aghayeva				
187.	Development and characterization of synbiotic microbeads for enhanced viability of probiotics for food applications.	Naeem, H., M. Shahbaz, U. Farooq and T. Ahmad.	2025	Journal of Food Science.	10	1750-3841
188.	Differential effects of sole and phosphorus based nitrogen fertilizer sources on wheat growth and nutrient use efficiency	Hafza Maria Asghar Alvi, Wazir Ahmed, Muhammad Yaseen, Subhan Danish, Nawaf Alshamamri, Safa Obaidur Rab, Rahul Datta	2025	Scientif reports	https://doi.org/10.1038/s41598-025-12647-7	
189.	Doping dependency of chitosan and PAA controlled CdSe quantum dots for catalytic and bactericidal behavior by inhibiting DNA gyrase and DHFR through molecular docking.	Hassan, M., Ikram, M., Haider, A., Shahzadi, I., Moeen, S., Ul-Hamid, A., Ali, G., Ullah, H., Ebaid, M.S. and Graeff, C.F.	2025	International Journal of Biological Macromolecules	288	
190.	Drought resilience of wheat genotypes through microbial biostimulants under water deficit regimes.	Ahmad, S., H.M. Hammad, M.H.U. Rahman, M.B Hussain and M.A. Sher.	2025	Journal of Agronomy and Crop Science	0	0
191	Effect of heat treatments on 'Azeem Chaunsa' mango fruit quality and anti-oxidative attributes at ambient conditions	Rehman, A.U., I. A. Rajwana, M. Amin, S. Ullah, A. Hussain, B. A. Saleem.	2025	Pakistan Journal of Botany	53(3)	1-21
192.	Effect of nitrophos fertilizer on pollinator dynamics and onion	Bukhari, S.F.; Ali, M.; Khan, F.Z.A.; Mozuratis, R.	2025	Biology	14	https://doi.org/10.3390/bi



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193.	Efficacy of different insecticides and botanicals against greenish silk-moth, <i>Trilocho varians</i> (Lepidoptera: Bombycidae) under laboratory and greenhouse conditions.	Ramzan, M., Naeem-Ullah, U., Ishtiaq, M., Qayyum, M. A., Panhwar, W. A., Larik, S. A., & Bourhia, M.	2025	Entomological News, 132(1), 81-96.	132	https://doi.org/10.3157/021.132.0108
193.	Enhanced nutritional contents of dried and germinated legumes with perspective of antioxidant activity and phenolic contents	A. Umar, M.A. Binobead, H.M. Khan, M. Sibte-Abbas, S.I. Abro, M.S. Elshikh, M. Stasiak, K. Gr ¹ decka-Jakubowska, M. Gancarz	2025	International Agrophysics	39	135-143
195.	Enhancing garlic (<i>Allium sativum</i> L.) productivity by maximizing the efficacy of applied nutrients with alligator weed compost	Tanveer A, M Sarwar, M Farrukh Saleem, B Ali, H Ahmad, MS Asghar, NA Ikram, M Zafar	2025	Commun. Soil Sci. Plant Anal.	56	1207-1220
196.	Enhancing heat tolerance in maize hybrids using bacterial consortium: Modulation of morpho-physiological traits and antioxidant mechanisms.	Hussain, I., R.M. Ikram, M.H. Rahman, M.B. Hussain.	2025	Journal of Agronomy and Crop Science,	211(4)	e7007
197.	Enhancing potato growth and quality through macronutrient and zinc fertilization: a field-based study on	Yan Yang , Hongyang Wang, Chunguang Yao, Youhong Feng, Yunxin Kong,	2025	Discover Sustainability		



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198.	Evaluation of different irrigation settings to maximize water productivity	Muhammad Sohail, Muhammad Saifullah, Alamgir Akhtar Khan, Sarfraz Hashim, Muhammad Abid, Muhammad Naveed Tahir	2025	Journal of Computing & Biomedical Informatics	08(02)	794–802
199.	Evaluation of non-Bt refugia cultivation to manage Bt resistance in <i>Pectinophora gossypiella</i> against transgenic cotton	M Hanif, S Saeed, M Ali, M Ishtiaq, Z Khan	2025	Pak J Zool	1	41275
200.	Exploring interactive effect of nitrogen and zinc for enhancing cotton productivity in arid climate.	Hussain I, RM Ikram, S Ahmad, HMW Iqbal, S Munawar, HM Hammad, A Ghaffar	2025	J. Plant Nutr.	48	1683-94.
201.	Exploring punicalagin potential against cancers: A comprehensive review.	Hassan, H. U., Shahbaz, M., U. Momal, Naeem, H., Imran, M., Abdelgawad, M.A., Ghoneim, M.M., Mostafa, E. M., Ghorab, A.H., Alsagaby, S.A., Abdulmonem, W. A., Hussain, M., & Yehuala, T. F.	2025	Food Science and Nutrition.	13	e70072

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202.	Expression divergence of BAG gene family in maize under heat stress	Farid B, MAB Saddique, MHN Tahir, RM Ikram, Z Ali, W Akbar	2025	BMC Plant Biol	25	16
203.	Extenuating lead toxicity in Chinese cabbage using organic acids: Comparative efficacy of acetic, citric, and tartaric acids	Muhammad Rizwan a b, Umair Riaz c, Humera Aziz d, Wajih a Anum e, Muhammad Rizwan d, Ghulam Murtaza f, Jean Wan Hong Yong g, Hong Chen a	2025	Ecotoxicology and Environmental Safety	300	
204.	Field evaluation of different biopesticides for aphid pest management in wheat	N. Batool, S. Saeed, M. A. Khan, U. Naeem-Ullah, F. Z. A. Khan, & N. Naqqash	2025	Journal of Agriculture and Biology	3(1)	98-106
205.	Fusion of GNN and GBDT models for graph and node classification	Muhammad Farhan, Nadeem Iqbal Kajla, Malik Daler Ali Awan, Mickaël Coustaty, Muhammad Muzzamil Luqman &	2025	Springer Nature	15727	
206.	Green-engineered calcium-doped carbon nanospheres enhance salt tolerance and growth in maize by modulating gene expressions and antioxidant defense mechanisms	Javaid MH, B Ali, A Neelam, SAH Bukhari, R Munir, Z Haider, M Rehman, HA Razzaq, A Majeed, Y Gan	2025	J. Environ. Chem. Eng.	13	117061
207.	Handheld sensor-based NDVI measurement as an alternative to destructive sampling	Hammad HM, A Ahmad, F Abbas, AA Farooque, C Willkerson, S	2025	Int. J. Plant Prod.		1-14



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208.	Harnessing genetic diversity in wheat to enhance grain nutrition and yield for biofortification breeding	Hakeem, S., Ali, Z., Saddique, M.A.B., Habib-Ur-Rahman, M. and Wiehle, M	2025	Biological Research	58	1-14
209.	Harnessing plant defense: Elicitors, hormones and immunity-driven production of medicinally valuable secondary metabolites	Bismillah Mubeen, Shamas Murtaza, Sanabil Yaqoob, Afusat Yinka Aregbe, Turkson Antwi Boasiako, YuQing Xiong, YongKun Ma,	2025	South African Journal of Botany	179	280-292
210.	Health risk assessment of heavy metal accumulation in rice grains cultivated by industrial effluents	Sheeza Rafaqat, Ambreen Aslam, Umair Riaz, Ibtisam M. Alsudays, Sabiha Javied, Nayyar Hassan, Muneera A. Saleh, Khalid H. Alamer, Qamar uz Zaman	2025	Applied and environment soil sciences	6	
211.	Hepatoprotective effect of Jasminum sambac decoction against paracetamol-induced toxicity: <i>In silico</i> , in vitro and <i>in vivo</i>	Imran Ahmad Khan, Muhammad Omer Iqbal, Maliha Khalid Khan, Qurat ul Ain.	2025	AJTR	17(1)	60-74
212.	High-altitude precipitation controls the mass balance of Pasu Glacier, Karakoram over 2000–2020: A case study based on mass and energy budget	Yu Zhu, Shi-Yin Liu, Ying Yi, Li-De Tian, Muhammad Ashraf, Fu-Ming Xie, Muhammad Saifullah, Syed Hammad Ali, Richard Grünwald	2025	Advances in Climate Change Research	16(2)	240–256



213.	Hydrothermal integrated chemical treatment of microplastics for efficient degradation: Mechanistic insight and degradation behavior	M.Z. Gulzar, G. Liu, B. Yousaf, M. Imran, M. Arif, M. Nauman, M.I.S. Haider, B. Sattar, R. Safeer, S. Ijaz, R. Liu	2025	Journal of Water Process Engineering	74	107809
214.	Impact of germination and soaking on the nutritional and functional profile of multigrain porridge premix	Yaqoob, S., M. Amir, S. Ahmad.	2025	Journal of Food Measurement and Characterization		1-16
215.	Impact of soil microbes and abiotic stress on strawberry root physiology and growth: A review	Akhtar, H., Hameed, A., Binyamin, R., Riaz, K., Aslam, H.M.U., Ali, F., Ali, S., Akash, Z., Zaheer, M.S., Ikram, K., Niaz, Y., and Ali, H.H.	2025	Phyton-International Journal of Experimental Botany	94 (3)	561-581
216.	Impact of stubble incorporation on soil properties, growth and yield of wheat in semi-arid conditions	Murtaza, Shakeel Ahmed, Wazir Ahmed, Muhammad Usman Jamshaid, Muhammad Waqas, Hafiz Muhammad furrakh, Atiq ur Rahman, Abdul Ghaffar, Hafiz Muhammad Rafique, Muhammad Imran	2025	Journal of Agriculture and Biology	3	520-529.
217.	<i>In Silico</i> identification and characterization of SOS gene family in soybean: Potential of calcium in salinity stress mitigation	Anam Hameed; Faiz Ahmad Joyia; M. Asaf Khan; M. Hammad Nadeem Tahir; Madeeha Shahzad Lodhi; Saima	2025	PLoS One	0	0



		Muzammil; Muhammad Shafiq; Tsanko Gechev; Muhammad Faisal				
218.	Interactive effects of reduced irrigation and coated fertilizer on nutrient and water use efficiency of maize	Muhammad Amir, Shakeel Ahmad, Wazir Ahmed, Muhammad Usman Jamshaid, Malik Muhammad Yameen, Hafiz Muhammad Farrukh, Muhammad Atiq ur Rahman, Hafiz Muhammad Rafique, Muhammad Imran	2025	Journal of Agriculture and Biology	2	240-250
219.	Interactive effects of tillage, legumes and nitrogen on soil health and cotton-wheat productivity.	Iqbal, H.M.W., A. Ghaffar, M. N. Afzal, K. Mubeen and T. Ul-Haq	2025	New Zealand Journal of Crop and Horticultural Science		1-27
220.	Investigating the effect of preservatives on antioxidant potential of garlic paste	Raza, N., Saleem, Z., Sibte Abbas, muhammad, Shahbaz, M., & Farooq, U.	2025	RADS Journal of Food Biosciences	3	2
221.	Investigating the impact of enzyme diversity in producing edible bird nest protein hydrolysates: Techno-functional, structural, molecular docking, and in vitro digestibility	Rabia Kanwal, Abdur Rehman Tabussam Tufail, Muhammad Irfan, Mian Anjum Murtaza, Mian Shamas Murtaza, Tawfiq Alsulami, Ibrahim Khalifa and	2025	Food Structure	43	100415
222.	Investigating the impact of lactic acid bacteria fermentation on the	Bismillah Mubeen, Afusat Yinka Aregbe,	2025	Journal of Food Measurement and	19	3188-3204



	phytochemical composition, antioxidant and functional properties, and sensory attributes of monk fruit sweetened sea buckthorn beverage	Shamas Murtaza, Sanabil Yaqoob, YuQing Xiong, Yongkun Ma		Characterization		
223.	Investigating the triple-frequency ultrasound-assisted fermented rice lees: Impact on physicochemical, structural, morphological, and metabolic properties	Mian Shamas Murtaza, Sanabil Yaqoob, Bismillah Mubeen, Aysha Sameen, Mian Anjum Murtaza, Abdur Rehman, Tawfiq Alsulami, Sameh A. Korma, Ibrahim Khalifa and Yong Kun Ma	2025	Ultrasonics Sonochemistry	112	107176
224.	Isoflavones: Promising natural agent for cancer prevention and treatment.	Ul Hassan, M. H., Shahbaz, M., Imran, M., Momal, U., Naeem, H., Mujtaba, A. & Mostafa, E. M.	2025	Food Science & Nutrition	13	e70091
225.	Management of fruit and vegetable waste through composting along with naturally occurring minerals.	Qurat-ul-Ain, Shakeel Ahmad*, Muqarrab Ali, Muhammad Usman Jamshaid ,Hira Safdar	2025	International Journal of Recycling of Organic Waste in Agriculture	14	
226.	Maneuvering digital frontier: Transforming consumers' purchase intentions for fresh vegetables via mobile tech	Aslam, M. & Li, Z.	2025	J. of Animal and Plant Sciences (JAPS)	35(2)	662–670, doi:10.36899/JAPS.2024.3.0752
227.	Melatonin induces drought stress tolerance by regulating the physiological	Muhammad Ahsan., Adnan Younis., Aftab Jamal., Mohammed O.	2025	Heliyon	11	e41236



	mechanisms, antioxidant enzymes, and leaf structural modifications in <i>Rosa centifolia</i> L.	Alshaharni., Uthman Balgith Algopishi., Abeer Al-Andal., Mateen Sajid., Muhammad Naeem., Jawad Ahmad Khan., Emanuele Radicetti., Mohammad Valipou, and Gulzar Akhtar.				
228.	Mitigation potential of green-zinc oxide nanoparticles for Nickel (Ni) stress in watermelon plants: Regulation of Cellular Oxidative stress metabolism and reduction in Ni translocation	Khalofah A, MQ Khan, HS Hayat	2025	J. Soil Sci. Plant Nutr.	25	5098-5113
229.	Modified Hydrometallurgical approach for the beneficiation of copper from its low-grade ore	Ali Z, Wilkes N, Raza N, Omar M.	2025	ACS omega	2025 Apr 8;10(15)	14826-34.
230.	Multispectral approach for wheat yield estimation using deep learning	Muhammad Rashid, Salman Qadri, Abdul Razzaq, Sarfraz Hashim, Ali Hamza, Muhammad Habib-ur-Rehman	2025	Journal of Computing & Biomedical Informatics	08(02)	01–09
231.	Next-generation food recommendation system: A real-time, feedback-driven chatbot solution for restaurants	M.Sanan Nawaz ¹ , Ali Hassan ² , Abu Huraira ³ , Israr Hussain Salman Qadri Javeria Jabeen	2025	Kashf Journal of Multidisciplinary Research	2	16-29

CHAPTER 2



232.	Ontology modeling for mental health disorders: A comprehensive framework for clinical treatments	Ayesha Arshad, Muhammad Yasir Khan, Ayesha Afzal.	2025	Statistics, Computing and Interdisciplinary Research	7(1)	67-77
233.	Optimizing iodine seed priming for enhanced yield and biofortification of tomato	Ikram NA, A Ghaffar, AA Khan, F Nawaz, A Hussain	2025	J. Soil Sci. Plant Nutr.	25	1901-1912
234.	Overexpression of TaSnRK2.9s Improves Plant Growth and Development in Rice (<i>Oryza sativa</i> L.)	Shoaib Ur Rehman, Xinguo Mao, Yuying Li, Jingyi Wang, Muhammad Sajjad, Zulqurnain Khan, Zijin Zhang, Ummara Waheed, Muhammad Usama Hasnain, Jing Chen, Ruilian Jing.	2025	Plant Breeding	0	45668
235.	Plant biochemistry in the era of omics: Integrated omics approaches to unravel the genetic basis of plant stress tolerance.	Sarfraz, Z., Zarlashat, Y., Ambreen, A., Mujahid, M., Iqbal, M. S., Fatima, S. A., Iqbal, M.S., Iqbal, R. and Fiaz, S.	2025	Plant Breed.	0	1-23
236.	Recent perspectives on anticancer potential of coumarin against different human malignancies: An updated review.	Shahbaz, M., Perween, A., Momal, U., Imran, M., Ul Hassan, M. H., Naeem, H. & Al Jbawi, E.	2025	Food Science & Nutrition	13	e4696
237.	Recent perspectives on meat consumption and cancer proliferation.	Momal, U., Naeem, H., Aslam, F., Shahbaz, M., Imran, M., Hussain, M., Ahmad, A.,	2025	Journal of Food Processing and Preservation	1	6567543



		Memon, A. G., Mujtaba, A., Atif, M., Mehmood, T., & Yehuala, T. F.				
238.	Response of dual-purpose barley (<i>Hordeum vulgare</i>) to different sowing	Hussain M, MB Khan, M Ali, N Javed, A Majeed	2025	Int. J. Agric. Biol.	33	330510
239.	Role of organic agriculture in enhancing soil health: implications for physico-chemical and biological properties	Murtaza, G., Hassan, W., Iqbal, J., Riaz, S., Riaz, U., Mobeen, K. and Ali, M.,	2025	Plant and Environment	6	
240.	RoomMate: An AI optimized space rental system	Ayesha Farooq, Israr Hussain, Hifza Iman, Nagina Kiran, Nadeem Iqbal Kajla, Muhammad Ahsan Jamil	2025	Journal of Statistics, Computing and Interdisciplinary Research	7(1)	51-65
241.	Seed fortification with calcium sulphate enhances germination indices, growth and nutrient concentrations in Rhodesgrass (<i>Chloris Gayana</i> Kunth.)	Khan MA, RM Ikram, A Matloob, M Imran, MA Raza, Q Abbas	2025	N. Z. J. Crop Hort. Sci.		1-12
242.	Silicon seed inoculation enhances antioxidants, physiology and yield of hybrid maize under heat stress	Munawar S, RM Ikram, RP Roetter, I Hussain, M Afzal, AH Ghazy, S Ahmad, MHU Rahman	2025	BMC Plant Biol.	25	417
243.	Soilless media solutions for mango nursery involve the synergistic use of	Zafar, M.S., I.A. Rajwana, K. Razzaq, T.U. Haq and H. Ullah.	2025	Pakistan Journal of Botany	57(4)	1273-1279



	biochar and pot size to enhance growth					
244.	Study of variability, combining ability, genetics and association of different yield related traits in rice (<i>Oryza sativa</i> L.) genotypes	Ali Z, M Naeem, I Rafiq, RM Ikram, MI Akram, El Taha, MM Bekhit, O Simsek, T Izgu	2025	Genet. Resour. Crop Evol.	72	2925-2938
245.	Sublethal effect and molecular responses of <i>Musca domestica</i> to cinnamon extracts	Alghamdi, A., Naqqash, M.N., Batool, N., Farooq, M.A., Noureldeen, A., Darwish, H., El-Kott, A.F., Salama, S.A. and Elmarassi, Y.R.	2025	The Science of Nature	112	p.50
246.	Surface effect of cesium and graphene quantum dots doped CaO to enhance catalytic dye degradation and bacterial inactivation with in-silico analysis.	Rahman, A., Imran, M., Haider, A., Shahzadi, A., Ul-Hamid, A., Fouda, A.M., Nazir, G. and Ikram, M.,	2025	Surfaces and Interfaces	56	
247.	Sustainability analysis of better cotton: A cleaner and sustainable production alternative in Pakistan	Mehmood HZ, A Abbas, R Ullah, AH Wudil	2025	J. Anim. Plant Sci. (JAPS)	35(1)	80-89
248.	Synthesis of tannic acid and chitosan-modified magnetic graphene oxide nanocomposite for metal recovery in low-grade ore.	Raza, N., M. Jamil, Z. Ali, N. Wilkes, M. Hayat, T. Ul-Haq, and M. Omar	2025	Journal of Ecological Engineering,	26(8)	367-380
249.	TaWUS-like-5D affects grain weight and filling	Liu H, Li T, Hou J, Yin X, Wang Y, Si	2025	Plant Biotechnology	23	0



	by inhibiting the expression of sucrose and trehalose metabolism-related genes in wheat grain endosperm	X, Rehman SU, Zhuang L, Guo W, Hao C, Zhang X.		Journal		
250.	Taxing the rental income in agriculture: An analysis of alternate policy options.	Baig, IA, S Ullah	2025	4th Rasta Conference	(CGP # 05-204	1-39
251.	Ternary carbon spheres/PAA-Al ₂ O ₃ nanoparticles as an efficient catalyst for RhB dye degrader and bactericidal agent; molecular docking	Malaika Batool, Muhammad Ikram, Ali Haider, Anum Shahzadi, Ahmed. M. Fouda, Anwar Ul-Hamid	2025	Journal of Inorganic and Organometallic Polymers and Materials	35	2574-2588
252.	Therapeutic effect of fennel seeds in the management of obesity	Bareera Ghaffar , Umrah Zafar, Samara Qaisar Alvi, Arooj Fatima,	2025	Pakistan biomedical journal	Volum e 8	: 2709-278X
253.	Tillage practices affect the soil health, water use efficiency and yield of lentil in hill torrent area of District Dera Ghazi Khan, Pakistan.	Muhammad Asif, Khuram Mubeen, Matlob Ahmad, Amar Matloob and Shakeel Ahmad	2025	Soil & Environment	44	
254.	Trade Intensity and revealed comparative advantage in agricultural commodities: An analysis for Pakistan and China	M. A. Nadeem, N. Nadeem, M. B. Ahsan and S. A. Abbasi	2025	Journal of Animal and Plant Sciences (JAPS)	35	237-249
255.	Transforming supply chains: Innovations, sustainability &	Ahad, A.; Ashraf, M. R.; Ilyas, K.; Sarfraz, B.	2025	Global Journal of Multidisciplinary Sciences and	1(2)	46-74, doi:10.70445/gjmDSA



	resilience in the modern era			Arts		.1.2.2024. 46-74 grafiati.co mresearch gate.net
256.	Utilization of garlic extract for confectionery products.	Riaz, A., Hassan, S. M., Bano, N., Hamza, A., Raza, N., Iqbal, S., & Firdous, N.	2025	Journal of Agriculture and Biology	3	466-478
257.	Weakening trends of glacier and snowmelt-induced floods in the Upper Yarkant River Basin, Karakoram during 1961–2022	Ying Yi, Yu Zhu, Shi-Yin Liu, Muhammad Saifullah, Kun-Peng Wu, Qiao Liu, Jin-Yue Wei	2025	Advances in Climate Change Research	16(3)	512–525
258.	Whitefly suppression through RNAi and nanoparticle synergy: Recent trends and future prospects	Akram U, Ahmed F, Waqas Z, Danish S, Mehmood MA, Khan Z, Rehman SU and Zafar MM	2025	Agrobiological Reports	20	91-104
259.	Yeast volatiles show promise as a semiochemical lure for <i>Carpophilus truncatus</i> , an emerging pest of almond orchards around the world.	Baig, F., Farnier, K., and Cunningham, P.	2025	Journal of Pest Science	98	1293-1304
260.	Yolo-pest: An optimized YoloV8x for detection of small insect pests using smart traps	Ayesha Hakim, Amit Kumar Srivastava, Ali Hamza, Muhammad Owais, Muhammad Habibur-Rehman, Salman Qadri, Mirza Abdul Qayyum, Fawad Zafar Ahmad Khan,	2025	Scientific reports	15	1-19



		Muhammad Tariq Mahmood & Thomas Gaiser				
261.	Enhancing water use efficiency, maize productivity and profitability with drip and floppy sprinkler irrigation systems in arid climate	Abdul Ghaffar, Muhammad Nadeem, Mudassir Aziz, Sarfaraz Hashim, Muhammad Imran, Ijaz Hussain, Saeed Ahmad	December 24, 2024	International Journal of Agriculture & Biology	33	330306

2.18.2 Books/Book Chapters Published

Sr. No.	Book/Chapter Title	Editor's Name	Author's Name	Year	Publisher
1	Veterinary Medicine: Enhancing Animal Health well being	Prof. Dr Muhammad Asif Raza, Prof Dr Malaika Watanabe, Prof Dr Sugiharto Sugiharto	-	2024	Springer Nature, Cham, Switzerland
2	Carbon-Based Nanomaterials for Environmental Applications	Mayra Castro	Muhammad Ikram, Ali Haider, Sawaira Moeen, Junaid Haider	2024	Springer Cham
3	Green Nanoparticles; Sustainable Approaches and Applications in Veterinary Medicine	Ahmed R, Khan A, Abbas RZ, Farooqi SH and Asrar R (eds)	Firdous UH, Kiran S, Waqas MU, Ahmad AS, Ahmad S, Rehman A, Iqbal A, Raza I, Muneer MH and Haider A,	2024	Unique Scientific Publishers, Faisalabad, Pakistan
4	The Use of Phytogenic Feed Additives in Animal Nutrition Pakistan Scenario	Abbas RZ, Akhtar T, Asrar R, Khan AMA and Saeed Z	Rana Muhammad Shahbakht, Zubair Azhar Nomi, Samar Wafa Kabeer, Muhammad	2024	Unique Scientific Publishers, Faisalabad, Pakistan



			Zeeshan Anwar, Shehryaar Shahid, Beenish Imtiaz, Gulfam Younus, Muhammad Hamza Muneer, Muhammad Usman and Shahid Ali Rajput		
5	Nanomaterials Characterization	Ahmed R, Khan A, Abbas RZ, Farooqi SH and Asrar R	Qamar H, Iqbal A, Ahmad AS, Kiran S, Ahmad S, Usman M, Muneer MH, Hussain K, Shahbakht RM, Rehman A and Haider A	2024	Unique Scientific Publishers, Faisalabad, Pakistan
6	Nanoparticles in Targeted Drug Delivery and Therapeutics	Ahmed R, Khan A, Abbas RZ, Farooqi SH and Asrar R	Iqbal A, Firdous UH, Hussain K, Ahmad AS, Kiran S, Ahmad S, Usman M, Raza I, Shahbakht RM, Waqas MU and Haider A	2024	Unique Scientific Publishers, Faisalabad, Pakistan
7	Nanotechnology in Parasite Control: New Therapeutic Horizons	Ahmed R, Khan A, Abbas RZ, Farooqi SH and Asrar R	Bashir M, Khan MK, Hussain K, Abbas A, Haider A, Arshad M, Tabassum F, Noor M, Waqas U and Shahbakht RM	2024	Unique Scientific Publishers, Faisalabad, Pakistan
8	Nutritional Profile of Black Soldier Fly (<i>Hermetia illucens</i>) Larvae for Poultry	Prof. Dr Muhammad Asif Raza, Prof Dr Malaika Watanabe, Prof Dr Sugiharto Sugiharto	Uzma Batool, Junaid Ali Khan, Fouzia Tabassum, Iftekhar Majeed, Shaheen Kousar,	2024	Zenodo



	Nutrition		Samar Wafa Kabeer, Sundas Naz, Asghar Abbas, Maham Ali, Sayda Umi Farwa		
9	Navigating Hematological Disorders from Diagnosis to Treatment	Prof. Dr Muhammad Asif Raza, Prof Dr Malaika Watanabe, Prof Dr Sugiharto Sugiharto	Ahsan Anjum , Bakhtawar Khan, Rizwana Sultan, Imran Ahmad Khan, Muhammad Asif Raza, Samar Wafa Kabeer, Muhammad Ali Buzdar, Momna Mehmood, Muhammad Faisal Riaz, Saheer Ishaq	2024	Zenodo
10	Antimicrobial Peptides Are A Substitute For Antibiotics In The Farming Industry, Particularly For Livestock And Poultry	Prof. Dr Muhammad Asif Raza, Prof Dr Malaika Watanabe, Prof Dr Sugiharto Sugiharto	Mehroz Latif, Shahid Ali Rajput, Asghar Abbas, Kashif Hussain, Muhammad Adnan Sabir Mughal, Atif Rehman, Muhammad Umair Waqas, Ali Haider, Rana Muhammad Shahbakht, Baseer Ahmad2	2024	Zenodo
11	Targeting PTP1B for the Treatment of Steatosis – Insights from Viscosol’s Role in Insulin-Mediated Lipid Metabolism	Dr. Costin Teodor Streba	Muhammad Asim, Aleena Altaf, Aamir Sohail, Maimoona Arshad, Faiza Noreen, Idrees Raza, Hamza Muneer,	2025	Intechopen



	Regulation		Muhammad Murtaza Hasnain, Raza Sufyan and Imran Ullah		
12	Sustainable Postharvest Technology for Fruits and Vegetables/Natural Plant Extracts and Postharvest Quality of Fruits and Vegetables	Sajid Ali, Shabbir Ahmad Mir, BN Dar and Shaghef Ejaz	Ambreen Naz, Kashif Razzaq, Sami Ullah, Misbah Sharif, Ali Hamza and Syed Bilal Hussain	2024	CRC Press, Boca Raton, USA.
13	Sustainable Postharvest Technology for Fruits and Vegetables/ Edible Films for Postharvest Quality Management of Fresh Fruits and Vegetables	Sajid Ali, Shabbir Ahmad Mir, BN Dar and Shaghef Ejaz	Farzana Rafeeq, Sami Ullah, Kashif Razzaq, Uzman Khalil, Tanveer Hussain and Seema Kanwal	2024	CRC Press, Boca Raton, USA.
14	Sustainable and Innovative Vegetable Production in times of Climate Change Concepts of Olericulture /Hybrid Seed Production in Vegetable Crops	Zafar Iqbal Muhammad Akbar Anjum Sezai Ercisli Saeed Rauf	Saddique, B.A.M., M.A. Tariq, T. Ahmad, S. Hakeem and Cai Linlin	2025	Springer Nature Singapore
15	Sustainable and Innovative Vegetable Production in	Zafar Iqbal Muhammad Akbar Anjum Sezai Ercisli	Ahmad, T., M. Anwar-ul-Haq, A. Noor. S. Akhtar and T. Demir	2025	Springer Nature Singapore



	times of Climate Change Concepts of Olericulture /Hybrid Seed Production in Vegetable Crops	Saeed Rauf			
16	Understanding Drought Stress, Its Effects, and Tolerance Mechanism for Sustainable Vegetable Production. In: Sustainable and Innovative Vegetable Production in times of Climate Change.	Iqbal, Z., Anjum, M.A., Ercisli, S., Rauf, S. (eds)	Bahar, A.A., Faried, H.N., Ullah, S., Ali, A.	2025	Springer, Singapore.
17	Rural Industry Development: Implementing a Whole-of-Chain Approach	Complete Book	Mehdi, M. (sole author)	2025	Cambridge Scholars Publishing, UK
18	Dynamics of the Rice Supply Chain System in Punjab, Pakistan	M. Koubaa, M. H. Ammar, D. Dhouib, S. Mnejja	Ahsan, M. B., Rehman, A.-U., Jabbar, Z., & Mahmood, H. Z.	2024	John Wiley & Sons, USA
19	Price Volatility and Food Security: Measurement and Implications	Muhammad Khalid Bashir	Ahmad, B., Badar, H., Gjølborg, O., & Mehdi, M.	2024	Wiley (<i>Food Security in the Developing World</i>)
20	Environmental Pollution: Core Contaminants and Threats to Human Life.	Fernanda Maria Policarpo Tonelli, Arpita Roy, and Khalid Rehman Hakeem (Eds.)	Humera Aziz, Umair Riaz, Sobia Ashraf, Sana Ashraf, Sana Farooq, Shazia	2025	Apple Academic Press, Inc. Co-published with CRC Press



	In: Sustainable Nano-remediation: Modern Technologies for a Clean Environment.		Iqbal, Abid Hussain, Tanveer Ul Haq, and Ghulam Murtaza.		(Taylor & Francis)
21	Water Governance Nurturing Resilience for Sustainable Development	Umair Riaz, PhD Laila Shahzad, PhD Fernanda Maria Policarpo Tonelli, PhD	N/A	2025	Apple Academic Press Hard ISBN: 9781998511624
22	Enhancing nutritional value for improved human health. In: Crop Biofortification: Biotechnological Approaches for Achieving Nutritional Security under Changing Climate (First edition)	Waseem Hassan, Sundas Riaz, Muhammad Asif Shehzad, Muhammad Nawaz, Ahmad Mahmood, Umair Riaz, Shakeel Ahmad, Muhammad Imran, Muqarrab Ali, Adnan Noor Shah	NA	2025	John Wiley & Sons Ltd, PP 245-262
23	Selenium Biofortification in Wheat: A Way Forward Toward Nutritional Security. In: Crop Biofortification: Biotechnological Approaches for Achieving Nutritional Security under		Muhammad Shoaib Ismail, Fahim Nawaz, Muhammad Asif Shehzad, Waseem Hassan, Rukhsar Saleem, Adnan Noor Shah, Muhammad Baqir Hussain	2025	John Wiley & Sons Ltd, PP 121-13



	Changing Climate,				
24	Sustainable Agroecosystems - Principles and Practices: Principles and Practices/Perspective Chapter: Redesigning Agroecological Practices for Enhanced Resource Use Efficiency in Agroecosystems	Vijay Singh Meena, Ram Swaroop Bana, Ram Kishor Fagodiya and Mohammad Hasanain	Muhammad Talha Aslam, Imran Khan, Muhammad Umer Chattha, Ali Raza, Muhammad Bilal Chattha, Muqarrab Ali, Muhammad Umair Hassan and Iqra Fatima	2024	Intech open Limited
25	Crop Bio-fortification: Biotechnological Approaches for Achieving Nutritional Security Under Changing Climate/ Biofortification in Vegetables: Enhancing Nutritional Value for Improved Human Health	Adnan Noor Shah, Sajid Faiz, Muhammad Aslam, Javed Iqbal, Abdul Qayyum	Waseem Hassan, Sundas Riaz, Muhammad Asif Shehzad, Muhammad Nawaz, Ahmad Mahmood, Umair Riaz, Shakeel Ahmad, Muhammad Imran, Muqarrab Ali, Adnan Noor	2025	Wiley
26	Sustainable and Innovative Vegetable Production in times of Climate Change; Chapter 13: Mineral	Z. Iqbal, M.A. Anjum. S. Ercisli, and S. Rauf (eds.),	Batool, Z., M.B. Hussain, N. Ahmad, and W. Hassan.	2025	Springer Nature Singapore Pte Ltd.



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vegetable crops.

27	Handbook of Research on Mango Fruit Postharvest Science, Production, Nutrition, and Processing Technology.; Chapter 8: Irrigation Management in Mango Orchards.	Hussain, S., K. Nahar, I.A. Rajwana, S. Ercisli, and S. Ahmad, (eds).	Ahmed, N., S. Danish, A.G. Grewal, F. Illyas, S. Masood, M.A. Ali, M.B. Hussain, S. Ahmad, M. Imran, and S. Hussain.	2025	Apple Academic Press Incorporates.
28	Climate Change Mitigation and Adaptation to Improve Food Security in South Asia: Climate change: Causes, Effects And Solutions For Agriculture and Food Security of Pakistan. pp. 59-76.	Islam, R. (eds)	Masood, S., N. Ahmed, and M.B. Hussain.	2025	CRC Press, A Taylor & Francis, NW, USA.
29	Crop Biofortification: Biotechnological Approaches for Achieving Nutritional Security under Changing Climate, First Edition. Chapter: Selenium	Shah, A.N., S. Fiaz, M. Aslam, J. Iqbal, A. Qayyum.	Ismail, M.S., F. Nawaz, M.A. Shehzad, W. Hassan, R. Saleem, A.N. Shah, and M.B. Hussain.	2025	John Wiley & Sons Ltd.



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Forward toward
Nutritional
Security. p. 121-
130.

30	Optimising Agricultural Risk Management with Hybrid Block-Chain and Fog Computing Architecture for Secure and Efficient Data Handling	M.G Sumithra, Malathy Sathayamoorthy, Manikandan, Rajesh Kumar Dhanaraj, & Maria Ouaisa	Javaid Ahmed Malik, Aamir Hussain, Habib Shah, Muhammad Saleem, Tawfeeq Alsanoosy, & Usman Mohiyud Din Chaudhry	2024	Springer Nature, Cham, Switzerland
31	Implementing Fog Computing in Precision Agriculture for Real-Time Soil Health Monitoring and Data Management	M. G. Sumithra, Malathy Sathyamoorthy, M. Manikandan, Rajesh Kumar Dhanaraj, Mariya Ouaisa	Javaid Ahmad Malik, Muhammad Saleem, Sulaiman, Almutairi, Salman Qadri, Muhammad Asif Raza, Tawfeeq alsanoosy & Usmna Mohyud Din Chaudhary	2024	Springer Nature
32	Innovating with Quantum Computing Approaches In Block-Chain For Enhanced Security And Data Privacy in Agricultural IoT Systems	M. G. Sumithra, Malathy Sathyamoorthy, M. Manikandan, Rajesh Kumar Dhanaraj, Mariya Ouaisa	Salman Qadri, Javaid Ahmad Malik, Habib Shah, Muhammad Asif Raza, Tawfeeq alsanoosy, Muhammad Saleem	2024	Springer Nature Switzerland
33	Modernizing Transit: Intelligent Traffic and	Shruti Sharma, Ashutosh Sharma, Trinh Van Chien	Maira Khalid, Muhammad Awais, Chandroth	2025	CRC Press Taylor &



	Transportation Management with Artificial Intelligence in the Era of 5G and 6G		Jisi, Manal Ahmad, and Byeong-hee Roh		Francis Group
34	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	CRC Press Taylor & Francis Group
35	Predictive Modeling of Water Levels Using Univariate and Multivariate Time Series Approaches	Ahmed Sefelnasr, Mohsen Sherif, Vijay P. Singh	Rehmana Younis, Aqib Rehman Pir Zada, Malik Muhammad Saad Missen, Muhammad Naeem Iqbal, Nadeem Iqbal Kajla, Mohamed Elkollaly & Faisal Baig	2025	Springer Nature
36	Nanomaterials for Enhanced Plant-Based Food Production	Huseyin Tombuloglu, Guzin Tombuloglu, Khalid Rehman Hakeem, Faheem Shehzad Baloch, Mohammad Azam Ansari	Muhammad Usman, Muhammad Atiq, Nasir Ahmed Rajput, Mohsin Shad and Asif Mahmood Arif	2025	Academic Press, Elsevier
37	Metals and Metalloids in Plant Signaling	Tariq Aftab	U Akram, I Shahzadi, SMS Peerzada, F Sajal, A Farooq	2024	Springer Nature Switzerland
38	Endophytic Fungi: A natural	Abd-Elsalam, K.A., Amr H. Hashem (eds)	Ashfaq, M., I. Mushtaq, K.A.	2025	Springer, Nature,



	approach to plant growth promotion and sustainable agriculture		Abd-Elsalam, M. A. Mehmood, S. B. Kayani		Singapore
39	The Multifaceted Biocontrol Mechanisms of Endophytic Fungi	Abd-Elsalam, K.A., Amr H. Hashem (eds)	Mehmood, M.A. Rauf, A., K.A. Abd-Elsalam, M. Ashfaq, S.B. Kayani, S. Javeed	2025	Springer, Nature, Singapore
40	Nanobiotechnology for Plant Protection, Nanofertilizer Delivery, Effects and Application Methods /Nanoencapsulation of rhizobacteria: An innovative solution for boosting crop yields	Kamel A. Abd-Elsalam	Saba Yaseen, Fatima Javeria, Sultan Habibullah Khan, Aftab Ahmad, Shoaib Ur Rehman, Muhammad Imran, Hasan Riaz, Zulqurnain Khan	2024	Elsevier
41	Nanomaterials for Enhanced Plant-Based Food Production	Huseyin Tombuloglu, Guzin Tombuloglu, Khalid Rehman Hakeem, Faheem Shehzad Baloch, Mohammad Azam Ansari	Muhammad Usman, Muhammad Atiq, Nasir Ahmed Rajput, Mohsin Shad and Asif Mahmood Arif	2025	Academic Press, Elsevier
42	Insecticide resistance in insect vectors of human diseases: challenges and management opportunities.	In: Zaman MA, Farooqi SH and Khan AMA (eds), Holistic Health and Antimicrobial Resistance: A Zoonotic Perspective.	Sufyan M, Ali A, Qayyum MA, Ejaz A, Liaqat U, Sharif U, Kainat I, Haider K, Tayyab M and Nawaz A, 2025.	2025	Unique Scientific Publishers, Faisalabad, Pakistan, pp: 169-176.



43	Integrated Pest Management in Cotton (Chapter - 5) In: Best Crop Management and Processing Practices for Sustainable Cotton Production.	Gursoy, S., Songul, A., Gricher, W. J.	Mirza Abdul Qayyum, Shafqat Saeed, Waqas Wakil, Muhammad Yasin, Ahmad Nawaz, Abid Ali, Habib Ali, Unsar Naeem-Ullah, Umer Sharif, Hasan Taha, Aiman Khalid, Iqra Maryum, Zeeshan Shahid and Wania Hasan Zubairi.	2024	IntechOpen
44	Innovative Approaches in Insect Pest Control: A Molecular Perspective	Habib Ali, Yutao Xiao	Muhammad Nadir Naqqash, Nimra Batool, Muhammad Asif Farooq	2025	Taylor & Francis https://doi.org/10.1201/9781003478706
45	Management in Vegetable Crops in a Book Sustainable and Innovative Vegetable Production in times of Climate Change	Iqbal Z, MA Anjum, S Ercisli, S Rauf	Farooq O, RM Ikram, I Shabbir, H Dogan, S Ahmad	2025	Springer Nature, Cham, Switzerland
46	Dynamics of the Rice Supply Chain System in Punjab, Pakistan	Koubaa M, MH Ammar, D. Dhouib, S Mnejja	Ahsan MB, A Rehman, Z Jabbar HZ Mahmood	2024	WILEY & ISTE
47	Representative Agricultural Pathways (RAPs) for sustainable food production: A	Michael Spies, Henryk Alff, Christoph Raab, Aksana Zakirova, Mehwish Zuberi	Muhammad Ashfaq, Irfan Ahmad Baig, Javaria Nasir, Jahangir F	2024	Centre for Econics and Ecosystem Management, Eberswalde

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	participatory approach for small farmers in Pakistan		Punthkay		University for Sustainable Development
48	Natural Plant Extracts and Postharvest Quality of Fruits and Vegetables. In Sustainable Postharvest Technologies for Fruits and Vegetables (pp. 418-430).	Sajid Ali, Shabbir Ahmad Mir	Naz, A., Razzaq, K., Ullah, S., Sharif, M., Hamza, A., & Hussain, S. B.	2024	CRC Press
49	Application of Nanotechnology for Improving Food Safety and Security	Innovations in Engineering and Food Science	Batool, A., Farooq, U., Firdous, N., Shafi, A., Khan, Z., Ahmad, S., Abbas, M.S., Usman, M.	2024	IGI Global (DOI: 10.4018/979-8-3693-0819-6)
50	Bacterial Pathogens in Food and Their Control by Bacteriophages	Innovations in Engineering and Food Science	Firdous, N., Ahmad, S., Farooq, U., Batool, A., Usman, M., Abbas, M.S., Iqbal, Z., Sidhu, M.A., Siddique, T.	2024	IGI Global (DOI: 10.4018/979-8-3693-0819-6)
51	Hydrogen Rich Water and Molecular Hydrogen for Fresh Fruits and Vegetables	Sustainable Postharvest Technologies for Fruits and Vegetables	Firdous, N., Batool, A., Ahmad, S., Usman, M., Abbas, S.E., Farooq, U.	2024	CRC Press (DOI: 10.1201/9781003370376-26)
52	Millet and Technology	The Nutritional Value of Millets in Future Eras	Batool, A., Farooq, U., Shafi, A., Khan, Z., Firdous, N.	2024	Columbia University Press (ISBN: 1-0364-1374-8)

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53	Characterization and Properties of Millet	The Nutritional Value of Millets in Future Eras	Firdous, N., Farooq, U., Habiba, U., Batool, A., Ahmad, S., Usman, M., Abbas, M.S.	2024	Columbia University Press (ISBN: 1-0364-1374-8)
54	Green polymers for packaging applications /Characterizing Green Biopolymers for Packaging Applications. Green polymers for packaging applications	Aman Ullah, Shakeel Ahmed	Muhammad Shahbaz Aneesa Altaf, Hammad Naeem., Ushna Momal, Shamas Murtaza, and Nighat Raza	2025	Taylor and Francis, CRC PRESS
55	Novel Approach to Sustainable Temperate Horticulture /Strategies for Adding Value to Food Byproducts (Recovery and Valorization). Novel Approach to Sustainable Temperate Horticulture	Gulzar Ahmad Nayik, Sajad H. Wani, Vajahat Khursheed, Mohammad Javed Ansari	Shamas Murtaza, Nighat Raza, Muhammad Shehbaz, Umar Farooq, Samara Qaisar Alvi, Hammad Naeem, Abdul Mannan Shakir, Saima Rafique, Sanabil, Iram Hafiz	2024	Taylor and Francis, CRC PRESS
56	Bacterial Pathogens in Food and Their Control by Bacteriophages.	Mehta, S. F. Islam A. Imran	Nida Firdous, Shabbir Ahmad, Umar Farooq, Aliza Batool, Muhammad Usman, Muhammad Sibte- e-Abbas, Zafar	2024	IGI Global, Publisher of Timely Knowledge



			Iqbal, Muhammad Asim Sidhu, Tahira Siddique		
57	Molecular Hydrogen and Hydrogen-rich Water for Fresh Fruit and Vegetable Preservation	Ali, Sajid, Shabir Ahmad Mir, Basharat Nabi Dar, and Shaghef Ejaz	Nida Firdous, Aliza Batool, Shabbir Ahmad, Muhammad Usman, Muhammad Sibte-Abbas, Umar Farooq, Farid Moradinezhad, Fareena Jamil	2024	CRC Press
58	Beeswax. In Honey Bees, Beekeeping and Bee Products	Aijaz Ahmad Wachkoo, Gulzar Ahmad Nayik, Jalal Uddin, Mohammad Javed Ansari	Shahbaz, M., Naeem, H., Hamza, A., Murtaza, S., Nayik, G.A., Huda, N.U., Wachkoo, A.A., Nanda, V. and Singh, R.	2024	CRC Press
59	Characterizing Green Biopolymers for Packaging Applications. In Green Biopolymers for Packaging Applications	Aman Ullah, Shakeel Ahmed	Shahbaz, M., Altaf, A., Naeem, H., Momal, U., Murtaza, S., & Raza, N.	2025	CRC Press
60	Strategies for Adding Value to Food Byproducts (Recovery and Valorization). Novel Approach to Sustainable	Gulzar Ahmad Nayik, Sajad H. Wani, Vajahat Khursheed, and Mohammad Javed Ansari	Mian Shamas Murtaza, Nighat Raza, Muhammad Shahbaz, Umar Farooq, Samara Qaisar Alvi, Hammad Naeem,	2024	CRC Press Taylor & Francis Group, LLC



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Shakir, Saima
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Iram Hafiz,
Bismillah Mubeen
and Yong Kun Ma

61	Molecular Hydrogen and Hydrogen-rich Water for Fresh Fruit and Vegetable Preservation. In; Sustainable Postharvest Technologies for Fruits and Vegetables	Sajid Ali, Shabbir Ahmad Mir, B.N. Dar, Shagef Ijaz	Firdous, N., A. Batool, S. Ahmad, M. Usman, M. Sibte-e-Abbas, U. Farooq.	2024	1st edition CRC Press
62	Application of Nanotechnology for Improving Food Safety and Security. In; Innovations in Engineering and Food Science	Shilpa Mehta. Fakhar Islam. Ali Imran.	Batool, A., U. Farooq, N. Firdous, A. Shafi, Z. Khan, S. Ahmad, M. Sibte Abbas, M. Usman.	2024	IGI Global
63	Bacterial Pathogens in Food and Their Control by Bacteriophages. In; Innovations in Engineering and Food Science	Shilpa Mehta. Fakhar Islam. Ali Imran.	Firdous, N., S. Ahmad, U. Farooq, A. Batool, M. Usman, M. Sibte-e-Abbas, Z. Iqbal, M. A. Sidhu, T. Siddique.	2024	IGI Global
64	Characterization And Properties of Millet. In The	Dr Anamika Chauhan. Dr Ali Imran. Mr Fakhar Islam	Firdous, N., U. Farooq, U. Habiba, A. Batool, S.	2024	Columbia University, USA.



	Nutritional Value of Millets in Future Eras		Ahmad, M. Usman and M. Sibte Abbas.		
65	Hydrogen Rich Water and Molecular Hydrogen for Fresh Fruits and Vegetables, In Sustainable postharvest technologies for fruits and vegetables	Dr. Sajid Ali	Firdous, N., A. Batool, S. Ahmad, M. Usman, S. E. Abbas, U. Farooq.	2024	CRC Press.
66	Millet and Technology. In The Nutritional Value of Millets in Future Eras.	Dr Anamika Chauhan. Dr Ali Imran. Mr Fakhar Islam	Batool, A., Farooq U, Shafi A, Khan Z, Firdous, N.	2024	Columbia University, USA.
67	Nutrigenomics in Tomato; Enhancing Health Benefits Through Molecular Breeding. In Omics Approaches for Tomato Yield and Quality Trait Improvement.	Muhammad Waseem. Channapatna S. Prakash. Sajid Fiaz. Zhengguo Li	Firdous, N., U. Farooq, A. Batool, F. Jamil, A. Aslam.	2025	Springer
68	Omics Application for Tomato Production. In Omics Approaches for Tomato Yield and Quality Trait Improvement.	Muhammad Waseem. Channapatna S. Prakash. Sajid Fiaz. Zhengguo Li	Batool, A., U. Farooq, N. Firdous, S. Hamna, I. Zafar, S. Tahira and S. Amna.	2025	Springer



69	Postharvest Metabolomics: Prolonging Shelf Life and Quality of Tomatoes. In Omics Approaches for Tomato Yield and Quality Trait Improvement	Muhammad Waseem. Channapatna S. Prakash. Sajid Fiaz. Zhengguo Li	Firdous, N., U. Farooq, A. Batool, A. Aslam, E. Aliza, S. Ahmad, M. Sibte Abbas, M. Usman, and S. Khalil	2025	Springer
70	Starch-nanostructured-based active packaging for food applications. In Starch Based Nanomaterials for Food Packaging	Gulzar Ahmad Nayik, Aamir Hussain Dar	Murtaza, S., F. U. H. Shah, M. Shahbaz, M. A. Murtaza, U. Farooq and Y. Ma	2024	Academic Press
71	The Flavour of Sustainability: Citrus Waste in Distillation. In Valorization of Citrus Food Waste	Anamika Chauhan, Fakhar Islam, Ali Imran, Jagbir Singh Aswal	Batool, A., U. Farooq, N. Firdous, A. Shafi, H. Saqib R. Akram and H. Saleem.	2025	Springer
72	Plant Retrotransposons/ Retrotransposons in Genome of <i>Hordeum vulgare</i>	Deepu Pandita	R Habib, Z Khan, S Shabir, S Ijaz, A Fatima, U Waheed	2025	CRC Press
73	Plant Retrotransposons/ Retrotransposons in Nicotiana Plant Genome	Deepu Pandita	S Ijaz, A Ghazanfar, VS Khan, U Waheed, A Fatima, Z Khan	2025	CRC Press
74	Plant Retrotransposons/ Retrotransposons	Deepu Pandita	A Fatima, G Muhammad, U Waheed, S Ijaz, P	2025	CRC Press



	in Soybean (<i>Glycine max</i>)		Khanum, Z Khan		
75	Biofortified rice for zero hunger: current status, challenges, and prospects	Azhar TM., M.Q. Ahmad, I.A. Rana, R.M. Rana	Saddique, M.A.B., Z. Ali, M.A. Sher, S. Hakeem, D. Su and M.A. Muneer	2024	Science Direct
76	Plant Retrotransposons/ Retrotransposons in Soybean (<i>Glycine max</i>)	Deepu Pandita	A Fatima, G Muhammad, U Waheed, S Ijaz, P Khanum, Z Khan	2025	CRC Press
77	CRISPR-Based Gene Editing/3D's of Genome Editing Systems: Discovery, Developments, and Diversity	S Ahmad, AA Khan	Z Khan, S Ahmad	2025	CRC Press
78	CRISPR-Based Gene Editing/Role of Crispr-Cas System in the Development of Climate Smart Crops	S Ahmad, AA Khan	Z Khan, Z Ali, AA Khan	2025	CRC Press
79	CRISPR-Cas System: A New Toolbox for Developing Transgene-Free Mutants in Plants	S Ahmad, AA Khan	Akram, U., Farooq, A., Bharat, S.S., Kalsoom, R., Ahamd, F., Ur Rehman, S., Malik, W. and Ali, Z	2025	CRC Press
80	Biocontrol of mycotoxins: Dynamics and mechanisms of action. In Fungal Secondary Metabolites	Abd-Elsalam, Kamel A.	Mehmood, M. A., Rauf, A., Ashfaq, M., Ahmad, F., Akram, U., Saddique, M. A. B., & Farid, B.	2024	Elsevier



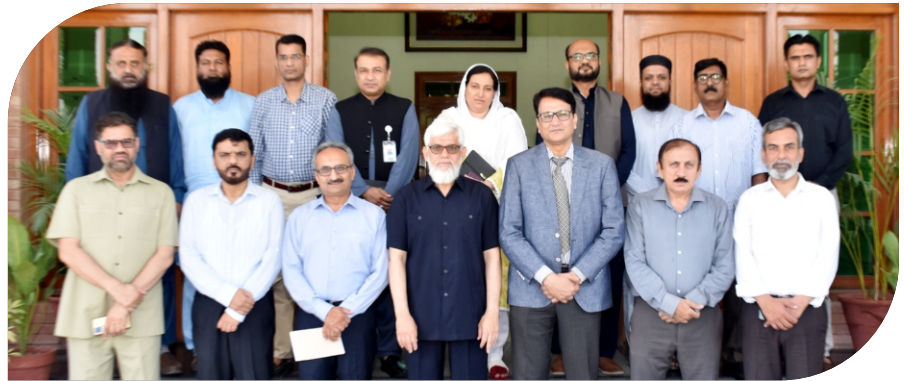
Quality Assurance



Directorate of Sports



Directorate of Sports





QUALITY ASSURANCE

3.1. Quality Enhancement Cell

MNS University Agriculture Multan, established Quality Enhancement Cell (QEC) in May 2016 for quality assurance in academic and other activities to meet international standards of higher education. 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. 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 assessment at various levels in coordination with 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:

- 1) Capacity building of faculty, staff and students through seminars and trainings regarding the quality assurance in Higher Education Institutions (HEIs).
- 2) Accreditation of undergraduate programs from respective Accreditation Councils.
- 3) Helping and guiding academic departments in preparation of dossiers to apply for NoC from HEC to launch graduate programs.
- 4) Self-assessment of academic programs involving program teams and assessment teams.
- 5) Conduct of Graduate Program Review (GPR) and coordination with academic Departments / Institutes for compiling the information.
- 6) Preparation of Institutional Performance Report (IPR) and conducting Review of Institutional Performance and Enhancement (RIPE).
- 7) Ensuring continuous quality improvement (CQI) through preparation of implementation plans and corrective actions taken reports in response to the findings of internal/external assessments.
- 8) Conduct the meetings of Departmental Technical Review Committees for Annual Review, Mid Term Review and Tenure Review of TTS faculty.
- 9) Capacity building of students, faculty, and non-teaching staff of the university regarding quality assurance and enhancement.
- 10) Promoting hybrid/blended learning through 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 2024-25, accreditation 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.	Horticulture	National Agriculture Education Accreditation Council (NAEAC)
2.	Soil Science	
3.	Environmental Sciences	
4.	Food Science and Technology	
5.	Agribusiness	

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.

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
1	Computer Science (IOC)	3	4
2	Faculty of Veterinary Animal Sciences	1	1
	• Poultry Science	1	1
	• Clinical Sciences	4	4
	• Pathobiology	1	1
	• Zoology Wild Life and Fisheries	2	2
	• Animal and Dairy Sciences		
3	Biotechnology (IPBB)	3	4
4	Plant Breeding and Genetics (IPBB)	3	3
5	Seed Science and Technology (IPBB)	3	4
6	Horticulture	3	3
7	Plant Pathology (IPP)	3	4
8	Entomology (IPP)	6	6
9	Soil and Environmental Sciences	4	6
10	Agricultural Engineering (FABSET)	4	4
	Total	41	47



3.5.2 Mid Probationary Review

Sr. No.	Institutes/Departments	Faculty Members	No. of Cases
1	Pathobiology (FVAS)	1	1
2	Computer Science (IOC)	2	2
Total		3	3

3.5.3 Tenure Review

Sr. No.	Institutes/Departments	Faculty Members	No. of Cases
1	Horticulture	2	2
2	Agricultural Engineering (FABSET)	1	1
3	Plant Pathology (IPP)	2	2
4	Soil and Environmental Sciences	2	2
Total		7	7

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.	Program	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 MSc (Hons), PhD	✓	✓	✓	✓
2.	Seed Science MSc (Hons)	✓	✓	✓	✓
3.	Biotechnology MSc (Hons), PhD	✓	✓	✓	✓
4.	Entomology MSc (Hons), PhD	✓	✓	✓	✓
5.	Plant Pathology MSc (Hons), PhD	✓	✓	✓	✓
6.	Soil Science MSc (Hons), PhD	✓	✓	✓	✓

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7.	Climate Change MSc (Hons)	✓	✓	✓	✓
8.	Agronomy MSc (Hons), PhD	✓	✓	✓	✓
9.	Horticulture MSc (Hons), PhD	✓	✓	✓	✓
10.	Forestry BSc(Hons)	✓	✓	✓	-

Faculty of Food and Home Sciences (FFHS)

1.	Food Science and Technology MSc (Hons), PhD	✓	✓	✓	✓
2.	Human Nutrition and Dietetics MSc (Hons), PhD	✓	✓	✓	✓
3.	Home Economics BSc (Hons)	✓	✓	✓	✓

Faculty of Social Sciences and Humanities (FSSH)

4.	Agricultural and Resource Economics BSc (Hons) Agriculture	✓	✓	✓	✓
5.	Agricultural and Resource Economics BSc (Hons) Agri. Major	✓	✓	✓	✓
6.	Agriculture Economics MSc (Hons) , PhD	✓	✓	✓	✓
7.	Farm Management BSc (Hons)	✓	✓	✓	✓
8.	Management Agribusiness Specialization (MS)	✓	✓	✓	✓
9.	Agricultural Extension MSc (Hons)	✓	✓	✓	-

Faculty of Veterinary and Animal Sciences (FVAS)

10.	Poultry Sciences BSc (Hons), MS	✓	✓	✓	✓
11.	Animal Sciences BSc (Hons)	✓	✓	✓	✓



12.	Microbiology (BS)	✓	✓	✓	✓
13.	Biochemistry (BS)	✓	✓	✓	✓
14.	Biotechnology (BS)	✓	✓	✓	-
15.	Zoology (BS)	✓	✓	✓	✓
16.	Medical Laboratory Technology (BS)	✓	✓	✓	✓
17.	Public Health (BS), (MS)	✓	✓	✓	✓
Faculty of Agricultural Bio System Engineering and Technology (FABSET)					
18.	Agro Industrial Engineering Technology BSc, MSc (Hons.)	✓	✓	✓	✓
19.	Agricultural Engineering MSc (Hons.)	✓	✓	✓	-
Institute of Computing (IOC)					
20.	Computer Science BS, MS & PhD	✓	✓	✓	✓
21.	Information Technology	✓	✓	✓	✓

3.7. Feedback Surveys and Analysis

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

- i. Course and Teacher Evaluation Proforma
- ii. Faculty Course Review Reports
- iii. Graduating Students Survey
- iv. Alumni Survey
- v. Employer Survey
- vi. 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.

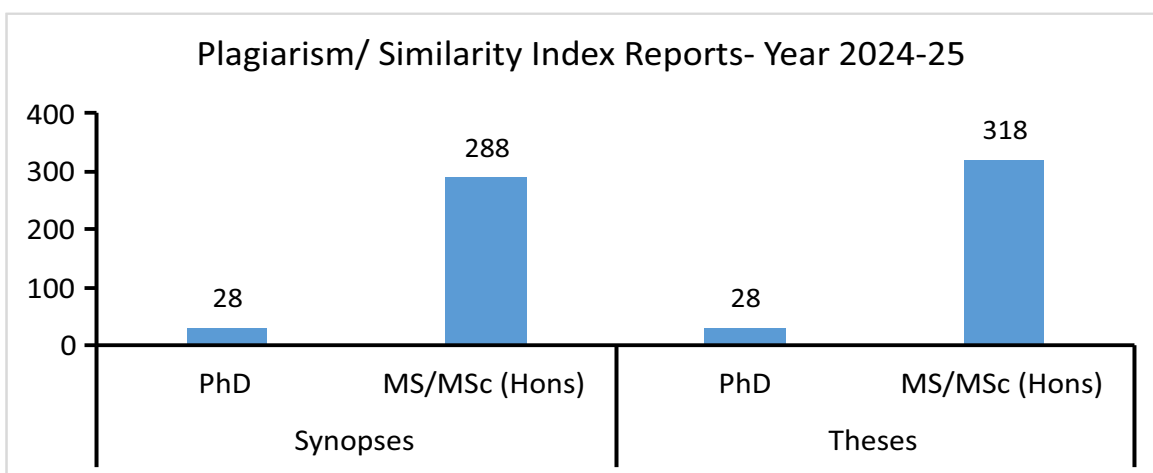
With the objective of improving the course contents, teaching, and conducive classroom environment to foster learning, feedback of students is collected in the form of HEC Course and Teacher Evaluation Proformas during each semester through an online system. The data received is analyzed and reports 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	Number of Courses	
		Under-graduate	Graduate
1	Winter 2024-25	443	98
2	Spring 2025	369	86



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 MNS-UAM 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 28-29, 2025, at MNS University of Agriculture, Multan. The committee constituted by Vice Chancellor comprises of Prof. Dr. M. Hammad Nadeem Tahir, Director QEC MNSUA Multan, Dr. Syed Farhan Gillani, Director QEC University of Southern Punjab Multan and Prof. Dr. Junaid Ali Khan, PO ORIC MNSUA Multan. 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 the implementation plan which was subsequently approved by the Vice chancellor.

3.10. Trainings/Workshops Organized

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

1. Orientation session on “Quality Teaching in HEIs” for visiting faculty
2. Training of Chairpersons and Program teams for Faculty Course Review Report
3. Training of Chairpersons for Analysis of Feedback data and Preparation of Reports
4. Training of Chairpersons and Program Teams for Graduating Students Survey Reports
5. Training of Chairpersons and Program Teams for Alumni Survey Report
6. Training of Chairpersons and Program Teams for Employer Survey Report
7. Training of Chairpersons and Program Teams for Faculty Survey Report
8. Sustainable Agriculture Policy Dialogue



3.11. 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:

1. 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.
2. The standardization has created seriousness at teaching and teachers are using innovative and ICT based approaches for making learning more effective.
3. 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.
4. Efforts regarding the observance of minimum criteria for admissions and research have resulted positive outcomes at departmental level.
5. Efforts to finding high place in the University rankings within and outside the country have been undertaken.
6. Putting the different processes in proper order has been prioritized at University level.
7. Monitoring and Evaluation has become an integral component of each ongoing project.
8. Promotion of outcome based teaching (classroom management, teaching methodology, peer reviews etc.)
9. Management of academic staff (area of interest, expertise, workload and other responsibilities/duties assigned from time to time)
10. Administrative and financial management of research projects.
11. Participation/membership of external stakeholders in Board of Studies, Academic Council, Selection Board, Syndicate etc.
12. Preparation of Course Files of each course and assessment at the end of each semester.



Faculty Development



Faculty Development



Faculty Development





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 young faculty. Moreover, the faculty members also participate in a number of trainings 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. Azher Khan	Lecturer	Outreach and Continuing Education	Ph.D.	IUI	Pakistan
5	Mr. Muhammad Arslan	Lecturer	Climate Change	Ph.D.	Uni. of Bonn	Germany
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

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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
NIL			

4.4. Faculty and Staff Trainings/Workshop Organized

Sr. No.	Training	Duration		Organization	Trainee
		From	To		
1	8th National Training Workshop on Digital Transformation in Information Centers, Tools, Trends & Tactics	05-07-2024	07-07-2024	University of Peshawar	Mr. Rubina Ahmed Deputy Librarian
2	Academia International Agriculture Conference from 08-07-2024 to 12-07-2024 at Dakar, Senegal	08-07-2024	12-07-2024	EMIA, African University of Science and Technology Dakar, Senegal.	Prof. Dr. Abdul Ghaffar Chairman, Agronomy
3	Academia International Agriculture Conference from 08-07-2024 to 12-07-2024 at Dakar, Senegal	08-07-2024	12-07-2024	EMIA, African University of Science and Technology Dakar, Senegal.	Dr. Kashif Razzaq Chairman, Horticulture
4	Academia International Agriculture Conference from 08-07-2024 to 12-07-2024 at Dakar, Senegal	08-07-2024	12-07-2024	EMIA, African University of Science and Technology Dakar, Senegal.	Dr. Abid Hussian Manger IL&T / Director External Linkages
5	Academia International Agriculture Conference from 08-07-2024 to 12-	08-07-2024	12-07-2024	EMIA, African University of Science and Technology	Prof. Dr. Muhammad

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	07-2024 at Dakar, Senegal			Dakar, Senegal.	Ashfaq Director, IPP
6	12 th International Conference on Controlled Atmosphere and Fumigation in Stred Products	18-08-2024	23-08-2024	Winnipeg Manitoba, Canada	Dr. Muhammad Shahbaz Associate Professor
7	International Wheat Conference under the ACIAR funded project “Accelerating genetic gain in wheat through hybrid breeding in Bangladesh, Ethiopia and Pakistan”	13-09-2024	28-09-2024	University of Sydney, Australia	Prof. Dr. Irfan Ahmad Baig Dean, FSS&H
8	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Prof. Dr. Shafqat Saeed Dean, FA&ES
9	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Dr. Alamgir Akhtar Khan Coordinator, FABSET
10	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Dr. Khurram Mubeen Associate Professor
11	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Dr. Ayesha Hakeem Assistant Professor
12	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Dr. Nadeem Iqbal Assistant Professor
13	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Dr. Mudassir Aziz Lecturer
14	Applying AI for good governance & agriculture in south Punjab	23-07-2024	23-07-2024	South Punjab Agriculture Secretariat	Mr. Ali Hamza Research Assistant
15	to attend 8th International Rural Tourism & Development Congress at Konya, Turkey	02-09-2024	09-09-2024	International Rural Tourism & Development Congress at Konya, Turkey	Prof. Dr. Irfan Ahmad Baig Dean, FSS&H
16	training under the ACIAR funded project Crop-2020-167 entitled	03-08-2024	29-09-2024	University of Sydney, Australia	Dr. Muhammad Ali Sher Lecturer

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“Accelerating genetic gain in wheat through hybrid breeding in Bangladesh, Ethiopia and Pakistan

17	To attend the mid project meeting of collaborative project and the International Wheat Conference under the ACIAR funded project “Accelerating genetic gain in wheat through hybrid breeding in Bangladesh, Ethiopia and Pakistan	14-09-2024	01-10-2024	University of Sydney, Australia	Prof. Dr. Irfan Ahmad Baig Dean, FSS&H
18	WaPOR Technical Training Course	23-09-2024	25-09-2024	FAO	Dr. Sarfraz Hashim Assistant Professor
19	WaPOR Technical Training Course	23-09-2024	25-09-2024	FAO	Dr. Mohsin Nawaz Assistant Professor
20	WaPOR Technical Training Course	23-09-2024	25-09-2024	FAO	Dr. Muhammad Mohsin Khan Assistant Professor
21	Three days training session on the Eddy Covariance Flux Tower at United Kingdom (England)	21-10-2024	25-10-2024	FAO	Dr. Muhammad Saifullah Assistant Professor
22	conference of tourism on 06-09-2024 at Azerbaijan	05-09-2024	08-09-2024	Government of Azerbaijan	Prof. Dr. Umar Farooq Dean, FF&HS
23	PHEC’S ONE-DAY TRAINING WORKSHOP (SEPT. 05, 2024) ON “USE OF GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION FOR MANAGEMENT & STAFF”	05-09-2024	05-09-2024	University of Veterinary and Animal Sciences (UVAS), Lahore	Mr. Muhammad Asif Nawaz Additional Treasurer
24	PHEC’S ONE-DAY TRAINING WORKSHOP (SEPT. 05, 2024) ON “USE OF GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION FOR MANAGEMENT & STAFF”	05-09-2024	05-09-2024	University of Veterinary and Animal Sciences (UVAS), Lahore	Mr. Miher Iftikhar Ahmad Manager Research Development

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25	PHEC'S TWO-DAYS TRAINING WORKSHOP (SEPT. 03-04, 2024) ON "USE OF GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION "	03-09-2024	04-09-2024	University of Veterinary and Animal Sciences (UVAS), Lahore	Mr. Muhammad Ahsan Jamil Lecturer
26	PHEC'S TWO-DAYS TRAINING WORKSHOP (SEPT. 03-04, 2024) ON "USE OF GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION "	03-09-2024	04-09-2024	University of Veterinary and Animal Sciences (UVAS), Lahore	Ms. Ramsha Ahmad Research Officer
27	To visit University of La Rochelle, France for project activities under the Pak-France Peridot Research Program (Phase-X)	07-09-2024	19-09-2024	University of La Rochelle, France	Dr. Nadeem Iqbal Assistant Professor
28	To attend 17th Annual Biorisk Conference organized by Asia Pacific Biosafety Association (APBA) in Philippines	02-09-2024	06-09-2024	Asia Pacific Biosafety Association (APBA)	Prof. Dr. Muhammad Asif Raza Dean, FV&AS
29	Faculty Development Program (Tier-II)	13-01-2025	25-01-2025	NAHE, HEC Islamabad	Dr. Mirza Abdul Qayyum Associate Professor
30	three days training session on the Eddy Covariance Flux Tower organizing by the FAO at United Kingdom (England)	21-10-2024	25-10-2024	FAO	Dr. Muhammad Saifullah Assistant Professor (TTS)
31	wapor technical training by FAO	23-09-2024	25-09-2024	FAO	Dr. Sarfraz Hashim Assistant Professor (TTS)
32	wapor technical training by FAO	23-09-2024	25-09-2024	FAO	Dr. Mohsin Nawaz Assistant Professor (TTS)
33	wapor technical training by FAO	23-09-2024	25-09-2024	FAO	Dr. Muhammad Mohsin Khan Lecturer
34	ONE DAY TRAINING/WORKSHOP (IPAS) INTELLIGENT PROJECT AUTOMATION SYSTEM	09-10-2024	09-10-2024	HEC Regional Center Lahore, Gulberg III, Lahore	Mr. Imran Mahmood Director (P&D)

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35	ONE DAY TRAINING/WORKSHOP (IPAS) INTELLIGENT PROJECT AUTOMATION SYSTEM	09-10-2024	09-10-2024	HEC Regional Center Lahore, Gulberg III, Lahore	Mr. Muhammad Azeem Afzaal Deputy Director, (P&IC)
36	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Dr. Khurram Mubeen Tenured Associate Professor on TTS
37	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Dr. Amar Matloob Associate Professor
38	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Dr. Sami-Ullah Assistant Professor
39	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Ms. Hafiza Tahira Gul Lecturer
40	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Dr. Mudassir Aziz Lecturer
41	5 Day Training on Climate Modeling, Risk Assessment and Gender Mainstreaming in Asia	11-11-2024	15-11-2024	Asian Disaster Preparedness Center (ADPC), Lahore	Ms. Umrah Zafar Lecturer
42	Online training program on “advancement in food technology bridging innovation with a sustainable future” by AARDO-MARDI	25-11-2024	29-11-2024	African Asian Rural Development Organization (AARDO)	Dr. Muhammad Shahbaz Associate Professor / Chairman, FS&T
43	Online training program on “advancement in food technology bridging innovation with a sustainable future” by AARDO-MARDI	25-11-2024	29-11-2024	African Asian Rural Development Organization (AARDO)	Dr. Nighat Assistant Professor (FS&T)
44	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Mr. Abd Ur Rehman Lecturer
45	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Hafiz Zahid Mehmood Lecturer

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46	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Sarfraz Hashim Assistant Professor
47	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Umair Sultan Assistant Professor
48	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Sibte-Abbas Assistant Professor
49	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Ms. Misbah Sharif Lecturer
50	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Hafiz Nazar Faried Assistant Professor
51	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Gulzar Akhter Assistant Professor
52	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Syeda Anum Masood Bokhari Lecturer
53	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Mr. Israr Hussain Lecturer
54	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Ms. Javeria Jabeen Lecturer
55	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Nadeem Iqbal Assistant Professor
56	04 Week National Faculty Development Program by NAHE,	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Akash Fatima Assistant
57	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Sehrish Ijaz Assistant Professor

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58	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Shahid Iqbal Assistant Professor
59	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Mudassir Aziz Lecturer
60	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Mr. Nabeel Ahmad Ikram Lecturer
61	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Akhtar Hameed Assistant Professor
62	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Farrukh Baig Assistant Professor
63	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Asif Farooq Assistant Professor
64	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Nadir Naqqash Assistant Professor
65	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Mr. Asif Mahmood Arif Lecturer
66	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Arslan Khan Lecturer
67	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Ms. Aimen Batool Lecturer
68	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Shakeel Ahmad Assistant Professor
69	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Imran Assistant Professor

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70	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Baseer Ahmad Assistant Professor
71	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Ms. Momna Mehmood Lecturer
72	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Ms. Samar Wafa Kabeer Lecturer
73	04 Week National Faculty Development Program by NAHE, HEC, Islamabad	17-02-2025	14-03-2025	NAHE, HEC, Islamabad	Dr. Muhammad Usman Lecturer
74	ACIAR project meeting and 69th Annual Conference of the Australasian Agricultural & Resource Economics Society	03-02-2025	14-02-2025	ACIAR project, Australia	Prof. Dr. Mubashir Mehdi Director, BIAEC
75	US Exchange Program under the Tabeer Project of LUMS	16-02-2025	03-03-2025	US Exchange Program, USA	Prof. Dr. Mubashir Mehdi Director, BIAEC
76	3-6 months short term training at China (Batch-II)			Ministry of National Food Security and Research	Dr. Syeda Anum Masood Bokhari Lecturer
77	ACIAR project meeting and 69th Annual Conference of the Australasian Agricultural & Resource Economics Society	03-02-2025	14-02-2025	ACIAR project, Australia	Dr. Muhammad Haseeb Raza Assistant Professor
78	3-6 months short term training at China (Batch-II)			Ministry of National Food Security and Research	Mr. Babar Farid Lecturer
79	Study on the Mechanisms of Polypropylene Plastic Microbial Degradation Based on Multi-Omics Analysis (No. 24390741300)	25-04-2025	24-05-2025	Shanghai Academy of Agricultural Sciences, China	Dr. Tanveer Ahmad Associate Professor
80	Remote Sensing for Agricultural Water Management	03-03-2025	14-03-2025	IHE DELFT Institute of Water Education, Netherland	Dr. Muhammad Mohsin Khan Lecturer
81	Nomination for the Faculty Development Program Tier-II,	14-04-2025	25-04-2025	NAHE, HEC, Islamabad	Dr. Muhammad Baqir Hussain

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(Associate Professors) 14-25 April
2025, Islamabad

Associate
Professor

82	one day training workshop on Pak-BCH portal on 17th April 2025 at Environmental protection Agency H-8/, Islamabad.	17-04-2025	17-04-2025	NPM (Pak-BCH), Ministry of Climate Change and Environmental Coordination, Pakistan Environmental Protection Agency, Islamabad	Dr. Unsar Naeem Ullah Associate Professor
83	one day training workshop on Pak-BCH portal on 17th April 2025 at Environmental protection Agency H-8/, Islamabad.	17-04-2025	17-04-2025	NPM (Pak-BCH), Ministry of Climate Change and Environmental Coordination, Pakistan Environmental Protection Agency, Islamabad	Dr. Zulqurnain Khan Assistant Professor
84	PQR TRAINING SESSION AT BHAUDDIN ZAKARIYA UNIVERSITY, MULTAN	13-05-2025	13-05-2025	Higher Education Commission (HEC), Islamabad	Mr. Sharaiz Shahid Research Officer
85	Participation in EPCCD Capacity Building Program on Environmental & Social Safeguard	15-05-2025	15-05-2025	Environment Protection and Climate Change Department, Govt. of the Punjab, Lahore	Prof. Dr. Tanveer-ul-Haq Professor
86	Participation in EPCCD Capacity Building Program on Environmental & Social Safeguard	15-05-2025	15-05-2025	Environment Protection and Climate Change Department, Govt. of the Punjab, Lahore	Dr. Shakeel Ahmad Assistant Professor
87	SEPAL TRAINING WORKSHOP FOR PROJECT STAKEHOLDERS at FAO Office, NARC, Park Road, Islamabad	20-05-2025	23-05-2025	FAO	Dr. Hafiz Mohkum Hammad Associate Professor
88	One day training session for public information officer (PIO) at Adbi-Baithak, Arts Council, Lahore	21-05-2025	21-05-2025	Agriculture Department, Lahore	Dr. Mirza Abdul Qayyum Associate Professor
89	Training session on the Eddy Covariance Flux Tower at Multan	30-06-2025	04-07-2025	FAO	Dr. Muhammad Saifullah Assistant Professor
90	Training session on the Eddy Covariance Flux Tower at Multan	30-06-2025	04-07-2025	FAO	Mr. Muhammad Mohsin Khan Lecturer



Access



UNIVERSITY OF AGRICULTURE MULTAN
Postgraduate Degree Programs
MS / B.Sc. (Hons.)

- M.Sc. (Hons.) Agronomy
- M.Sc. (Hons.) Biotechnology
- M.Sc. (Hons.) Climate Change
- M.Sc. (Hons.) Entomology
- M.Sc. (Hons.) Horticulture
- M.Sc. (Hons.) Plant Breeding & Genetics
- M.Sc. (Hons.) Plant Pathology
- M.Sc. (Hons.) Soil Science
- M.Sc. (Hons.) Seed Science and Technology
- M.Sc. (Hons.) Weed Science
- M.Sc. (Hons.) Agriculture Economics
- M.Sc. (Hons.) Agricultural Extension
- M.Sc. (Hons.) Agricultural Specialization
- M.Sc. (Hons.) Agro-Industrial Engineering Technology
- M.Sc. (Hons.) Energy Systems Engineering
- M.Sc. (Hons.) Agricultural Engineering
- M.Sc. (Hons.) Poultry Science
- M.Sc. (Hons.) Human Nutrition and Dietetics
- M.Sc. (Hons.) Food Science & Technology
- M.Sc. (Hons.) Computer Science
- M.A. (Hons.) Specialization in Food & Agribusiness Management, Supply Chain Management
- M.A. Executive (Worked Program)- Specialization in Food & Agribusiness Management, Supply Chain Management

Ph.D.
► PhD Agronomy
► PhD Biotechnology
► PhD Horticulture
► PhD Soil Science
► PhD Plant Pathology
► PhD Computer Science
► PhD Agriculture Economics
► PhD Seed Sci. & Technology
► PhD Plant Breeding & Genetics
► PhD Food Science & Technology
► PhD Human Nutrition and Dietetics

PHEC Honhaar Scholarship For Meritorious Students
2 years B.Sc ADP (Home Economics/ relevant subject)
1st Semester of B.Sc (Hons.) Home Economics)

Admissions
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Free Education at MS-UAM
for deserving students having
85% Term

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ACCESS

5.1. Basic Enrollment during 2024-25

Sr. No.	Degree	Male	Female	Total
1	Livestock Assistant Diploma (LAD)	159	01	160
2	B.Sc. (Hons.) Agriculture	199	30	229
3	B.Sc. (Hons.) Environmental Sciences	11	10	21
4	B.Sc. (Hons.) HND	03	27	30
5	B.Sc. (Hons.) Home Economics	03	12	15
6	B.Sc. (Hons.) Agri. & Resource Economics	18	10	28
7	BBA Agribusiness	64	34	98
8	BS Computer Science	161	67	228
9	BS Information Technology	162	72	234
10	BS Data Science	44	12	56
11	B.Sc. AIET	15	02	17
12	B.Sc. (Hons.) Poultry Sciences	13	00	13
13	B.Sc. Animal Sciences	14	00	14
14	BS Microbiology	09	31	40
15	BS Zoology	04	11	15
16	M.Sc. (Hons.)	139	75	214
17	Ph.D.	19	06	25
Grand Total		1071	532	1603

5.2. Data of M.Sc. (Hons.)/MS and Ph.D. Student Enrollment

5.2.1. M.Sc. (Hons.)/ MS Enrollment during 2024-25

Sr. No.	Program Offered	Eligible Candidates	Admitted (Male)	Admitted (Female)	Total Admissions
1	Agronomy	19	11	1	12
2	Agri .Business	2	0	0	0
3	Agri.Economics	4	1	0	1

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4	Agricultural Extension	2	2	0	2
5	Agri-Engg	8	8	0	8
6	Agro Industrial Engineering Technology (AIET)	13	3	0	3
7	Energy System Engineering	0	0	0	0
8	Biotechnology	7	2	2	4
9	Climate Change	8	5	0	5
10	Computer Science	32	7	17	24
11	Entomology	22	16	4	20
12	Fisheries and Aquaculture	0	0	0	0
13	Food Science & Technology	37	10	12	22
14	MS Human Nutrition and Dietetics	22	12	3	15
15	Horticulture	35	0	22	22
16	Plant Breeding & Genetics	16	11	3	14
17	Postharvest Management Technology	0	0	0	0
18	Public Health	14	7	3	10
19	Plant Pathology	0	0	0	0
20	Poultry Science	7	5	2	7
21	Soil Science	17	12	2	14
22	Seed Science and Technology	7	5	0	5
23	Weed Science	1	0	0	0
24	MS Zoology	0	0	0	0
25	MBA Regular	6	5	0	5
26	MBA Executive	29	17	4	21
	Grand Total	308	139	75	214

5.2.2. Ph.D. Enrollment during 2024-25

Sr. No.	Program Offered	Eligible Candidates	Admitted (Male)	Admitted (Female)	Total Admissions
1	Agronomy	3	1	0	1
2	Agri-Economics	4	2	0	2
3	Biotechnology	5	1	2	3
4	Computer Science	4	3	1	4
5	Entomology	5	4	1	5
6	Food Science and Technology	1	0	1	1
7	Horticulture	4	3	1	4
8	Human Nutrition and Dietetics	4	1	0	1



9	Plant Breeding & Genetics	1	0	0	0
10	Plant Pathology	2	2	0	2
11	Soil Science	3	2	0	2
12	Seed Science and Technology	0	0	0	0
13	Zoology	0	0	0	0
Grand Total		36	19	6	25

5.3. Number of Students Passed Out during 01-07-2024 to 30-06-2025 (Undergraduate) (Session 2020-24 and 2021-25)

Sr. No.	Degree Program	Total Enrolled	Male	Female	Pass Out
1	Livestock Assistant Diploma	470	466	04	413
2	BS Computer Science	256	202	54	234
3	BS Information Technology	254	210	44	226
4	BS Data Science	46	35	11	40
5	BBAA	103	87	16	74
6	Agri. Economics	23	22	01	13
7	Agronomy	111	104	07	93
8	Biotechnology	19	16	3	9
9	Entomology	120	107	13	104
10	Farm Management	28	28	0	10
11	Food Science & Technology	110	50	60	94
12	Horticulture	67	53	13	60
13	Forestry	15	15	0	10
14	Plant Breeding and Genetics	77	61	16	63
15	Plant Pathology	77	59	18	65
16	Seed Science	77	68	09	63
17	Soil Science	52	41	11	50
18	Agro Industrial Engineering	41	40	01	37
19	Poultry Science	45	40	05	34
20	Fisheries	11	9	2	7
21	HN&D	62	7	55	55
22	Animal Science	34	29	05	29
23	Microbiology	94	15	69	80
24	Agricultural Resource Economics	17	13	4	12
25	Environmental Sciences	18	6	12	16
26	Home Economics	10	01	9	9
27	Home Economics (ADP)	01	0	01	01
28	Zoology	117	43	74	93

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29	Zoology (ADP)	29	05	24	28
Grand Total		2384	1832	541	2022

5.4. Number of Students Passed Out during 01-07-2024 to 30-06-2025 (Postgraduate)

Sr. No.	Degree Program	Male	Female	Pass Out
1	M.Sc. (Hons.) Agronomy	17	01	18
2	M.Sc. (Hons.) Agri. Economics	03	01	04
3	M.Sc. (Hons.) Biotechnology	01	09	10
4	MS Computer Science	12	16	28
5	M.Sc. (Hons.) Entomology	13	04	17
6	M.Sc. (Hons.) Food Science & Technology	09	20	29
7	M.Sc. (Hons.) Horticulture	16	04	20
8	M.Sc. (Hons.) Plant Breeding & Genetics	13	01	14
9	M.Sc. (Hons.) Plant Pathology	06	04	10
10	M.Sc. (Hons.) Seed Science & Technology	06	0	06
11	M.Sc. (Hons.) Soil Science	17	07	24
12	M.Sc. (Hons.) Climate Change	16	03	19
13	MS Management-Agribusiness Specialization	02	02	04
14	MS Fisheries and Aquaculture	04	03	07
15	MS Poultry Science	15	02	17
16	MS Public Health	25	16	41
17	M.Sc. (Hons.) Agro-Industrial Engineering Technology	02	02	04
18	M.Sc. (Hons.) Agricultural Engineering	03	01	04
19	M.Sc. (Hons.) Human Nutrition & Dietetics	01	07	08
20	MS Zoology	06	04	10
21	Ph.D. Agronomy	02	0	02
22	Ph.D. Entomology	05	02	07
23	Ph.D. Plant Breeding & Genetics	01	01	02
24	Ph.D. Horticulture	02	0	02
Grand Totals		197	110	307



5.5. Full-time Faculty Members

Sr. No.	Designation	Male	Female	Total
1	Professor	13	-	13
2	Associate Professor	18	01	19
3	Assistant Professor	44	05	49
4	Lecturer	43	17	60
5	Grand Total	118	23	141
6	Ph.D. Faculty	88	09	97



Universities Building Economies



Universities Building Economies



Universities Building Economies





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 and 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 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. The South Punjab Agriculture Forum has now been established where all the agriculture-related departments will be working in collaboration to boost the agro-based economy of the country.

6.4 Industrial Projects

In the fiscal year 2024-25, the Office of Research, Innovation, and Commercialization (ORIC) at MNS University of Agriculture, Multan, excelled in managing a total of 35 industrial projects with a combined budget of PKR 170.28 million. This included securing funding for 07 new projects, amounting to PKR 16.33 million. Currently, 16 projects are active and ongoing, with a budget allocation of PKR 101.07 million. 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. The successful management of these projects underscores the university's strategic vision and dedication to fostering sustainable development and innovation.

6.4.1 Industrial Project – Current Status of Insecticide Resistance in Cotton Whitefly (*Bemisia tabaci*) in Major Cotton Growing Areas of Punjab, Pakistan

This project, funded by the CropLife Pakistan Association, with a total budget of PKR 4.109 million for a duration of 36 months, is led by Dr. Naeem Iqbal, Institute of Plant Protection (IPP). The project is designed to evaluate the toxicity of various insecticides against *Bemisia tabaci* and to assess the resistance levels of different strains of this pest to commonly used insecticides in the cotton agro-ecosystem. The outcomes will provide scientific evidence for resistance management and support the development of sustainable pest management strategies in the cotton sector.



6.4.2 Industrial Project – Preparation and Characterization of Biostimulant Enriched Polymer-Coated Urea (BSE-PCU) for Different Soils

This project, sponsored by Nice International Crop Excellence (Pvt.) Ltd., Multan, with a budget of PKR 1.2305 million for a period of 18 months, is led by Dr. Wazir Ahmed, Department of Soil and Environmental Sciences (SES). The project focuses on developing different grades of biostimulant polymer-coated urea formulations to enhance fertilizer efficiency, crop productivity, and environmental sustainability. Demonstration trials will be conducted on different crops, with the goal of reducing nitrogen demand by up to 30% through the adoption of slow-release fertilizers.

6.4.3 Industrial Project – Establishment of Carbon Offsetting Plantation under Climate Change Scenario

This 36-month project, funded by Sui Northern Gas Pipelines Limited (SNGPL) with a budget of PKR 4 million, is led by Dr. Muqarrab Ali, Department of Climate Change. The project aims to establish plantations for carbon offsetting, identify species with high carbon sequestration potential, and improve carbon footprints through sustainable plantation practices. It will also raise public awareness about climate change mitigation and contribute to scalable carbon offsetting models for Pakistan.

6.4.4 Industrial Project – Risk-Based Assessments of Aquifer Vulnerability for Khanewal Study Area

This internationally funded project, supported by the Food and Agriculture Organization (FAO) of the United Nations, carries a budget of PKR 3.04 million for a duration of 9 months. It is led by Prof. Dr. Irfan Ahmad Baig, Dean, Faculty of Social Sciences and Humanities (FSSH). The project focuses on reviewing and updating hydrogeological models, assessing aquifer vulnerability under climate change, and evaluating the impacts of management interventions. Outreach and capacity-building activities will also be undertaken to strengthen stakeholder capacity in groundwater management and aquifer sustainability.

6.4.5 Industrial Project – Assessment of Baseline Resistance Monitoring Program of (Bixlozone) F-VPF46-R016 400C for Phalaris minor of Wheat under Greenhouse Conditions in Pakistan

Sponsored by FMC United Private Limited, with funding of PKR 1.056 million for a period of 8 months, this project is led by Prof. Dr. Abdul Ghaffar, Department of Agronomy. The initiative is focused on assessing the baseline resistance of Phalaris minor, a problematic wheat weed, against the herbicide Bixlozone under greenhouse conditions. The outcomes will support herbicide resistance management strategies, ensuring sustainable wheat production systems in Pakistan.

6.4.6 Industrial Project – Beautification and Pollution Control of Ali Cottage Housing Complex through Development and Execution of Landscape Design

This project, funded by Ali Cottage Housing (Opal Marketing), Multan, with a budget of PKR 1.2364 million for a duration of 24 months, is led by Dr. Gulzar Akhtar, Assistant Professor, Department of Horticulture. The project aims to design and execute a comprehensive landscape plan to enhance the aesthetic environment and reduce environmental pollution within the Ali Cottage Housing Complex. It will also contribute to sustainable urban greening practices and improve the overall quality of life in the area.



UNIVERSITIES BUILDING ECONOMIES

6.4.7 Industrial Project – Establishment of a Mobile Laboratory System for Real-Time Assessment of Soil and Water Quality

With funding support of PKR 1.662 million from EMC Sciences, Multan, this 25-month project is led by Dr. Umair Riaz, Assistant Professor, Department of Soil and Environmental Sciences. The objective is to design, develop, and deploy a mobile soil and water testing laboratory mounted on a vehicle. The project will enable real-time testing of soil and water, provide training on accurate sampling methods, and offer diagnostic services to farmers. These interventions are expected to improve agricultural decision-making and promote sustainable soil and water management practices.

6.4.8 Industrial Projects/ Grants/ Funding/ Support etc.

Sr. No.	Title	Funding Agency	Award Amount (Million PKR)	Current Status
1	Current Status of Insecticide Resistance in Cotton Whitefly (<i>Bemisia Tabaci</i>) in Major Cotton Growing Area of Punjab, Pakistan	CropLife Pakistan Association	4.11	On-Going
2	Preparation and Characterization of Biostimulant Enriched Polymer Coated Urea (BSE-PCU) for Different Soils	Nice International Crop Excellence (Pvt.) Ltd. Multan	1.23	On-Going
3	Establishment of Carbon Offsetting Plantation under Climate Change Scenario	Sui Northern Gas Pipelines Limited (SNGPL)	4.00	On-Going
4	Risk-based Assessments of Aquifer Vulnerability for Khanewal Study Area	FAO, United Nations	3.04	On-Going
5	Assessment of baseline resistance monitoring program of (Bixlozone) F-VPF46-R016 400C for Phalaris minor of wheat in greenhouse in Pakistan.	FMC United Private Limited	1.06	On-Going
6	Beautification and Pollution Control of Ali Cottage Housing Complex Through Development and Execution of Landscape Design	Ali Cottage Housing (Opal Marketing), Multan	1.24	On-Going
7	Establishment of a Mobile Laboratory System for Real-Time Assessment of Soil and Water Quality	EMC Sciences, Multan	1.66	On-Going
Total cost			16.33	

6.5. Patents Filed

Sr. No.	Name of Lead Inventor	Title of Invention	Type of Invention	Key Scientific Aspects
1	Dr. Sarfraz Hashim, Assistant Professor, Agri Engineering	Tractor Mounted Rotatable Biomass Shredder with Hydraulic Feed and PTO	Product	The Tractor-Mounted Rotatable Biomass Shredder is a PTO-driven machine for 50–65 HP tractors, shredding woody residues into <6 mm



Driven Cutting Mechanism

chips. It handles branches up to 5 inches via a hydraulic feed, processes 350–450 kg/hour, and consumes 4 liters of fuel per hour. Made of mild steel, it has a 360° rotating chute and adjustable legs, offering stable, efficient, and sustainable waste management.

6.6. Consultancy Contracts Executed through ORIC with Industry, Commerce or Government

6.6.1. Consultancy: “Soil Baseline Study of Sindh Province” provided to Agri-Tech Solutions

Dr. Muhammad Imran, Assistant Professor, Soil and Environmental Sciences, and Dr. Mudassar Yasin, Assistant Professor, Agricultural Extension, provided consultancy services from August 19 to August 23, 2024. The assignment included soil sampling, questionnaire-based survey data collection, provision of datasets, and detailed analysis to establish a baseline understanding of soil conditions in Sindh Province.

6.6.2. Consultancy: “Investigating Organic Carbon Variations in Layyah’s Soils Due to Organic Farming” provided to Rural Business Development Center (RBDC), Pakistan

Dr. Umair Riaz, Assistant Professor, Soil and Environmental Sciences, and Dr. Abid Hussain, MIL&T, ORIC, undertook consultancy from September 1 to 15, 2024. The project comprised processing and preparation of soil samples, analysis of 84 samples for soil organic carbon and textural classification and sharing results with advisory inputs to field staff for improved organic farming practices.

6.6.3. Consultancy: “Investigating Organic Carbon Variations in Ghotki’s Soils Due to Organic Farming” provided to Rural Education and Economic Development Society (REEDS), Pakistan

Dr. Umair Riaz, Assistant Professor, Soil and Environmental Sciences, and Dr. Abid Hussain, MIL&T, ORIC, provided consultancy services from September 1 to 15, 2024. The consultancy involved the preparation and analysis of 84 soil samples for organic carbon and textural class, followed by result dissemination and advisory support for field operations under organic farming systems.

6.6.4. Consultancy: “Strengthening Resilience of Flood-Affected Communities in District Rajanpur (Punjab, Pakistan)” provided to Doaba Foundation

Dr. M. Abu Bakar Saddique, Assistant Professor, Institute of Plant Breeding and Biotechnology, rendered consultancy services from October 11 to 14, 2024. The training sessions focused on winter vegetable kitchen gardening, equipping flood-affected communities with practical knowledge to enhance household food security and strengthen resilience.

6.6.5. Consultancy: “Visit of Soilless Greenhouse Strawberry Farm, Jahanian” provided to Mr. Samee Ur Rehman (Progressive Farmer)

Dr. Hafiz Nazar Faried, Assistant Professor, Horticulture, conducted consultancy services on October 10, 2024. The assignment included a comprehensive visit to the greenhouse strawberry production facility, identification of key challenges, evaluation of the production environment, and provision of recommendations to optimize strawberry cultivation under soilless conditions.



6.6.6. Consultancy: “Market Assessment of Highly Hazardous Pesticides (HHPs) and Alternate Pesticides” provided to Agri-Tech Solutions

Dr. Muhammad Ishtiaq, Assistant Professor (Entomology), Institute of Plant Protection, provided consultancy services from October 25 to November 15, 2024. The project entailed development of a work plan, farmer surveys, focus group discussions with stakeholders, collection and analysis of market data on pesticide supply and demand, and delivery of a comparative impact assessment with a final comprehensive report.

6.6.7. Consultancy: “Productivity Enhancement of Guar Beans and Wheat under Ecological Conditions of Thal” provided to Mr. Syed Rashid Hussain Shah Bukhari (Progressive Farmer, Jhang)

Dr. Muqarrab Ali, Associate Professor, Climate Change, commenced consultancy on November 22, 2024. The assignment includes ten visits scheduled over a one-year period (November 2024 to October 2025) to provide advisory services aimed at improving the productivity of guar beans and wheat under the ecological conditions of the Thal region.

6.6.8. Consultancy: “Punjab Resilient and Inclusive Agriculture Transformation (PRIAT)” provided to Agribusiness Support Fund (ASF), Pakistan

Dr. Hafiz Nazar Faried, Assistant Professor, Horticulture, is providing consultancy services from November 2024 to February 2025. The consultancy focuses on training of trainers, technical human resource development, practical co-learning and knowledge sharing through field visits, and technical support for tomato and onion supply chain improvement under the PRIAT initiative.

6.7. Mango Festival 2024 Centaurus Mall, Islamabad

The 8th Annual Mango Festival was jointly organized by MNS University of Agriculture, Multan (MNSUAM), Centaurus Mall, Islamabad, and Mango Research Institute (MRI), Multan, from July 05 to 07, 2024, in collaboration with mango growers, industry partners, and other stakeholders. The primary objective of the festival was to showcase the diversity of mango varieties, highlight business potential, and promote value addition in the mango sector, branding Multan as the “Mango Capital” of Pakistan.

The festival was inaugurated on July 06, 2024, by Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, along with Senator Syed Yousaf Raza Gillani, Chairman of the Senate of Pakistan, and Deputy Chairman Senate Saleem Maandiwala. The dignitaries appreciated the university’s efforts in creating a business-oriented platform for the welfare of mango farmers, while also recognizing the contributions of MRI, Centaurus Mall, and the mango-growing community.

The event featured more than 60 indigenous and exotic mango cultivars displayed across 13 stalls, with participation from over 30 growers, exporters, and processors. Nearly half a million visitors attended the festival, providing farmers with access to high-end markets, significant cash sales, and online orders for future transactions.

The festival received overwhelming public appreciation for its attractive and business-focused activities, while also raising awareness of the rich diversity in Pakistan’s mango varieties. The closing ceremony included the distribution of souvenirs to dignitaries, farmers, and organizers, followed by a vote of thanks from the Vice Chancellor, who acknowledged the contributions of all stakeholders and media partners.

6.8. Mango Festival at Kohsar University, Murree

The 1st Mango Festival at Kohsar University Murree was held on July 7–8, 2024, in collaboration with MNS University of Agriculture, Multan (MNSUAM), Green Agriculture Services, and Mango Research Institute (MRI), Multan. The event celebrated Pakistan’s rich mango heritage, beginning with a cultural Qawwali night on July 7, followed by the main exhibition on July 8 at the scenic Kashmir Point, where more than 60 mango varieties were displayed.

The festival was inaugurated by Vice Chancellor of Kohsar University, Prof. Dr. Syed Habib Bukhari, and attended by representatives from MNSUAM, industry stakeholders, students, and the local community. A distinctive feature of the event



was an interaction between MNSUAM and Kohsar University's ORIC and BIC staff, where MNSUAM's achievements in business incubation and innovative product development were highlighted.

The festival provided a platform for promoting agricultural diversity, enhancing industry-academia linkages, and engaging the local community. The Vice Chancellor of Kohsar University announced plans to expand the event into a three-day festival in the coming year, reflecting its growing importance and impact.

6.9. 8th Annual Mango Festival at MNS University of Agriculture, Multan (MNSUAM)

The two-day Mango Festival 2024 was organized at MNS University of Agriculture, Multan (MNSUAM) on July 26–27, 2024, 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.

The inauguration ceremony was attended by senior officials from the Government of Punjab, including Mr. Saqib Ali Ateel (Secretary Agriculture, South Punjab), Mr. Fuad Hashmi Rubbani (Additional Chief Secretary South Punjab), and other dignitaries. Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana highlighted the university's role in advancing agricultural practices, promoting value-added mango products such as dried mango, and facilitating growers to meet export standards.

The second day featured a consultative seminar on "Eco-Smart Mango Production: Challenges and Opportunities" with participation from a large number of growers, researchers, and experts. Punjab Minister for Agriculture, Syed Muhammad Ashiq Kermani, announced a historic Rs. 174 billion agricultural package, upgrading of the Mango Research Institute into a Center of Excellence, and provision of solar plates for mango growers. The festival also emphasized climate resilience, sustainable production practices, and international market access.

Alongside the festival, the Department of Food Science and Technology organized a Mango Dish Making Show on July 27, 2024. Over 40 teams from universities, colleges, and restaurants prepared more than 100 innovative mango-based dishes. The event highlighted the nutritional value of mango and engaged the public in creative value addition. Prizes were awarded to winners at the closing ceremony.

The Mango Festival reaffirmed MNSUAM's commitment to supporting mango growers through research, innovation, and industry-academia collaboration while branding Multan as the "Mango Capital of Pakistan."

6.10. MNSUAM's Participation in South Punjab AI & Technological Advancement Exhibition

Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) participated in the South Punjab AI & Technological Advancement Exhibition organized by the Higher Education Department (HED) South Punjab on November 7, 2024, at Multan Marquee. Under the leadership of the Vice Chancellor, Prof. Dr. Ishtiaq Ahmad Rajwana, and representation by the Office of Research, Innovation and Commercialization (ORIC), MNSUAM showcased 15 innovative projects in Artificial Intelligence, agricultural engineering, and sustainable agriculture. Prominent projects included SMARTRAPS (AI and IoT-based pest surveillance system), AI-based Beehive, Small Tractor Propulsion System, Color-Cotton, Hybrid-Wheat, Biofloc Fish Farming, and Hydroponic Unit at MNSUAM.

The exhibition provided a valuable platform for the university to engage with academia, industry, and the community, generating significant interest in its research outputs and highlighting opportunities for collaboration and commercialization. MNSUAM's impactful representation reaffirmed its leadership in developing technological solutions for sustainable agriculture, regional development, and global food security.





6.11. Eddy Covariance Flux Tower Inaugurated at JPP Research Farm of MNSUAM

MNS University of Agriculture, Multan (MNSUAM) marked a significant milestone with the inauguration of the Eddy Covariance Flux Tower at its Jalalpur Pirwala (JPP) Research Farm, a project funded by the Food and Agriculture Organization (FAO) under the Green Climate Fund (GCF) initiative to promote climate-smart agriculture and improve water resource management. The ceremony, led by Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, was attended by deans, directors, senior faculty, administrative staff, researchers, and FAO project representatives, reflecting strong institutional and stakeholder support. Dr. Muhammad Saifullah, Assistant Professor, Agri-Engineering who leads the initiative, briefed participants on the tower's role in measuring carbon flux, evapotranspiration, and other environmental parameters critical to climate change research and agricultural sustainability. The efforts of Dr. Saifullah and his team were widely appreciated, while the active involvement of faculty, researchers, and young professionals highlighted the university's commitment to advancing scientific innovation, fostering climate resilience, and strengthening capacity building for future generations.

6.12. Capacity Building Program for University Management at MNSUAM

MNS University of Agriculture, Multan (MNSUAM), in collaboration with the National Academy of Higher Education (NAHE), Higher Education Commission (HEC), successfully organized a five-day Capacity Building Program for University Management from December 2–6, 2024. The initiative was designed to strengthen the leadership, governance, and administrative skills of mid-level and senior management staff, thereby enhancing institutional efficiency and aligning practices with global higher education standards. The training focused on contemporary challenges in university administration, including business communication, interpersonal skills, governance and workplace ethics, leadership and strategy, financial management, and procurement planning. A diverse group of 29 participants, representing key administrative departments such as Registrar Office, Treasurer Office, IT, ORIC, Controller of Examinations, Project Director Wing, Admin, Warden Office, Library, and Engineering, attended the program. Notably, nine participants joined from neighboring institutions, including Bahauddin Zakariya University (BZU) and Nishtar Medical University (NMU), Multan which fostered regional collaboration and knowledge sharing.

Expert resource persons, including Dr. Saiqa Imtiaz Asif (BZU), Dr. Akifa Imtiaz (Fatima Jinnah Women University), Dr. Muhammad Tahir Khalily (Shifa Tameer-e-Millat University), and Mr. Safdar Shah (Retd. Director, Auditor General of Pakistan/STI), conducted interactive sessions, case studies, and workshops. Active engagement was a hallmark of the training, with participants contributing to discussions, group projects, and presentations that encouraged innovation, collaboration, and critical problem-solving. The program emphasized practical applications, enabling participants to translate theoretical concepts into real-world institutional strategies. Pre- and post-assessments indicated significant improvements in communication, leadership, financial planning, procurement management, and decision-making skills. Participant feedback highlighted high satisfaction with the program's content and delivery, with requests for extended and more frequent training opportunities. The program concluded with a certificate distribution ceremony, celebrating the participants' professional development and representing a major step toward empowering university management professionals with advanced skills to lead with vision, resilience, and accountability.

CHAPTER 6



CHAPTER 6





6.13. Fauji Fertilizer Company Delegation Visits MNSUAM

A delegation from Fauji Fertilizer Company (FFC) visited Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) on January 27, 2025, to discuss collaborative initiatives in agricultural development. The visit, coordinated by the Office of Research, Innovation, and Commercialization (ORIC) under the leadership of Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, focused on exploring projects, public-private partnerships, and programs supporting farmers and students. The delegation appreciated the university's efforts in promoting regional agricultural development, while ORIC facilitated discussions on research-driven solutions, training opportunities, and initiatives to enhance productivity. Both parties reaffirmed their commitment to future collaborations aimed at strengthening the agricultural sector and fostering innovation and capacity building.

6.14. National Outreach Program for Higher Education Faculty (Phase II) at MNSUAM

The National Outreach Program for Higher Education Faculty (Phase II), organized in collaboration with the National Academy of Higher Education (NAHE), Higher Education Commission (HEC), was successfully hosted at MNS University of Agriculture, Multan (MNSUAM) from February 17 to March 11, 2025. This four-week training included nearly 80 sessions delivered by expert trainers, covering teaching techniques, research methods, classroom management, and the use of modern educational tools. The program aimed to strengthen the teaching capacity of early and mid-career faculty members, enabling them to adopt innovative pedagogical practices and improve the overall quality of education. A total of 30 faculty members from MNSUAM participated, along with support from trainers and coordinators, making it a significant professional development initiative.

The opening ceremony was held at Sardar Tanveer Ilyas Library with Dr. Noor Amina Malik, Managing Director NAHE, as chief guest, who highlighted the importance of continuous professional development and praised MNSUAM for hosting the program. Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana encouraged faculty to fully benefit from such opportunities for institutional growth and student success. The closing ceremony on March 11, 2025, was graced by Prof. Dr. Zubair Iqbal, Vice Chancellor Bahauddin Zakariya University, who commended the organizers and participants for their efforts and stressed the significance of such initiatives in raising higher education standards. The program was coordinated by Dr. Unsar Naeem Ullah with support from faculty and administrative staff, reflecting MNSUAM's commitment to enhancing teaching standards and fostering academic excellence.

6.15. Strengthening Bilateral Collaboration: Indonesian Embassy Official Visits MNSUAM

On November 12, 2024, Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM), hosted His Excellency Mr. Rahmat Hindiarta Kusuma, Chargé d'Affaires of the Indonesian Embassy, to strengthen Pakistan-Indonesia friendship and explore collaborative opportunities in agriculture. Under the leadership of Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, the delegation was briefed on MNSUAM's initiatives in climate-friendly farming, water conservation, pest management using smart traps, and sustainable crop production.

The visit included tours of the Central Lab System and hydroponic units, showcasing research in crop improvement, tissue culture, and modern, resource-efficient farming techniques. H.E. Mr. Kusuma expressed interest in Pakistan's halal meat industry and highlighted opportunities for trade and knowledge exchange. The visit concluded with a mutual commitment to promote cooperation in agriculture, research, and trade, reinforcing MNSUAM's role in fostering international collaborations and sustainable agricultural development.

6.16. 5th AFS Venture Spark Event at MNS University of Agriculture, Multan

The 5th AFS Venture Spark 2024 was successfully organized by Muhammad Nawaz Shareef University of Agriculture, Multan on December 10, 2024, serving as a premier platform to promote entrepreneurship, innovation, and applied research. The event brought together 27 universities with over 120 proposals and the participation of more than 1,900 students, researchers, and entrepreneurs. Innovative solutions in agriculture, food sciences, energy, health, computer sciences, and engineering were showcased, highlighting the creativity and problem-solving capacity of youth.



The competition concluded with recognition of outstanding projects, including the AI-Based Food Factory (Kitchen of Tomorrow) from Bahria University, Islamabad (First Prize: PKR 200,000), the Small Tractor Propulsion System with 200cc Gasoline Engine from MNSUAM (Second Prize: PKR 150,000), and Eco-Mars from The Islamia University of Bahawalpur (Third Prize: PKR 50,000), along with ten special prizes. The event also featured food stalls, exhibitions, cultural performances, and interactive networking opportunities, creating strong linkages among academia, industry, and policymakers. AFS Venture Spark 2024 reaffirmed MNSUAM's commitment to transforming research into practical solutions and contributing to sustainable socio-economic development.

6.17. MNSUAM's Participation in Food-Ag Manufacturing Expo 2025

On the invitation of the Trade Development Authority of Pakistan (TDAP), MNS-University of Agriculture, Multan participated in the Food-Ag Manufacturing Expo 2025, held on 26–28 February 2025 at Expo Centre, Lahore. The university was represented by Mr. Bilal Ahsan as part of the ongoing project “State of the Art Mango Drying Facility” supported by the Export Development Fund (EDF). At the stall, MNSUAM showcased value-added food and vegetables products along with other innovative agri-business solutions, attracting interest from dignitaries, industry representatives, and international delegations.

The expo provided an excellent opportunity to highlight the university's research-based products, explore linkages with business partners, and engage in discussions for future collaborations. MNSUAM's participation strengthened industry-academia connections and promoted the export potential of its value-added agricultural products.

6.18. MNSUAM Participation and 1st Prize Achievement at PHEC PINTECH Expo 2025

Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM) achieved a significant milestone by winning 1st Prize (PKR 500,000) in the Agriculture Category at the Punjab Innovation and Technology Expo (PINTECH) 2025, organized by the Punjab Higher Education Commission (PHEC). The award was conferred for the innovative project “Small Tractor Functional Propulsion System Design Using 200cc Gasoline Engine”, led by Dr. Umair Sultan, Assistant Professor, Agricultural Engineering.

The event, held on April 21, 2025, at Expo Centre, Lahore, showcased more than 650 innovative research projects shortlisted from 1,064 submissions representing 48 universities and 19 colleges. MNSUAM's successful participation was led by Prof. Dr. Ishtiaq Ahmad Rajwana, Vice Chancellor, along with Prof. Dr. Junaid Ali Khan, Director ORIC, Dr. Muqarrab Ali, Associate Professor, and Mr. Muhammad Tariq Rashid, Research Officer ORIC, ensuring the university's visibility and impactful representation. This prestigious achievement underscores MNSUAM's commitment to advancing solution-oriented research and fostering innovation in agriculture and technology, strengthening its role as a key contributor to Pakistan's sustainable development and industrial progress.





6.19. Seminar on Intellectual Property, Genetic Resources, Traditional Knowledge, and Folklore (GRTKF)

Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM), in collaboration with IPO-Pakistan, organized a seminar on May 29, 2025, to enhance awareness of intellectual property rights, including patents, trademarks, copyrights, industrial designs, geographical indications, and GRTKF. Conducted under the leadership of Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, the seminar was efficiently coordinated by ORIC, which played a pivotal role in organizing the event, engaging participants, and promoting IP protection among faculty and students. Keynote addresses were delivered by Ambassador (R) Farukh Amil, Chairman IPO-Pakistan, and Mr. Muhammad Ismail, Director GRTKF. Prof. Dr. Junaid Ali Khan, Director ORIC, highlighted the ORIC's initiatives in facilitating IP registration, commercialization of innovations, and safeguarding research outputs. The interactive Q&A session further underscored ORIC's commitment to fostering innovation, protecting intellectual property, and advancing research-driven economic development at MNSUAM.

6.20. Inauguration of Botanical Garden at MNSUAM

On June 3, 2025, Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM), inaugurated a Botanical Garden at Block-A to promote agricultural research, education, and campus engagement. The event, attended by Vice Chancellor Prof. Dr. Ishtiaq Ahmad Rajwana, faculty, staff, and students, featured a tree plantation drive reflecting environmental stewardship. Developed in collaboration with SNGPL under its CSR initiative, the garden will serve as a center for modern agricultural research and hands-on student training. Aligned with the university's 2025 Development Vision, this initiative aims to strengthen academia-industry linkages, enhance agricultural productivity, and develop technical skills.

6.21. Lahore Mango Festival 2025

The Lahore Mango Festival 2025, jointly organized by MNS University of Agriculture, Multan (MNSUAM), the Tourism Development Corporation of Punjab (TDCP), and AMRI, was held on June 24, 2025, at Palm Golf & Country Club, Lahore. The festival showcased premium mango varieties from Southern Punjab along with value-added products such as juices and preserves, which received wide appreciation. The event was inaugurated by Mr. Ahmed Raza (DG Horticulture) with special guests Mr. Aftab Tariq and Mr. Pervez Ejaz, while other notable attendees included Mr. Wajid Arshad, Mr. Zia ur Rehman, and Mr. Numan Khan. Representing MNSUAM, Dr. Kashif Razaq emphasized the importance of such initiatives in promoting academia-industry linkages, enhancing the export potential of local produce, and creating opportunities for research, innovation, and commercialization. Active participation from students, faculty, mango growers, and exporters underscored the festival's role as an effective platform for export promotion, economic growth, and agri-based innovation.



Strengthening of Physical Infrastructure



Strengthening of Physical Infrastructure



Strengthening of Physical Infrastructure



Strengthening of Physical Infrastructure





STRENGTHENING OF PHYSICAL INFRASTRUCTURE

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

The detail of the projects undertaken to improve and strengthen infrastructure of MNS University of Agriculture, Multan are as under:

7.1. On-Going Annual Development Program

7.1.1. Provision of Basic Facilities at Muhammad Nawaz Shareef University of Agriculture, Multan

Development Project amounting to Rs. 1356.378 million has also been approved for the FY 2023-24, funds amounting to Rs.200 million have been allocated for current financial year with implementation period of 36 months by Higher Education Commission (HEC) Islamabad. The project proposal includes the Academic and Lecture Theater Block (66700 Sft) for 2000 students., Central Library (FF) (10500 Sft), Boys Hostel (62000 Sft) with Capacity of 350 students, Girls hostel (62000 Sft) with capacity of 350 students, Multipurpose Hall (26000 Sft) with capacity of 700 students, Faculty Hostel (10300 Sft) for 19 faculty members, Transportation facility (02 No.s Student Buses and 01 No.s Coaster) for 180 students daily, External Development & landscaping, Lab equipment (331 No.s Items) for the newly established faculty of veterinary & Animal science and faculty of Agri. & Bio system Engineering, Furniture & fixture, ICT equipment (41 No.s Items) and allied external services.

During Financial Year **2022-23** the tender was called for the pre-qualification of consultant and EOI Books was also received and evaluation of profile is in progress.

During Financial Year **2023-24** the financial position of the scheme is according to PC-I allocation amounting to Rs. 40.000 million have been released in CFY against the allocation Rs. 200.000 million and same utilized and same has been utilized in current financial year.

Physical Progress of the project consultant was hired for all drawings, Designs, Detailed Estimate.

Under Revenue component, the one student bus has been procured.

During Financial Year **2024-25** the funds amounting to Rs. 100.000 million have been released out of which 96.125 million has been utilized.

Physical Progress of scheme Civil Work Contract for Academic & Lecture Theater Block (Group-A) and Multipurpose Hall (Group-B) awarded. The foundation work has been started on both facilities.

Overall Financial Progress of scheme is as under below:

Year	PC-I Allocation	Release	Expenditure
2023-24	200.000 M	40.000 M	40.000 M
2024-25	100.000 M	100.000 M	96.125 M
Total	300.000 M	140.000 M	136.125 M



The major objectives of the proposed project are as under:

1. To provide better education, teaching, training and research in fields of Veterinary & Animal Sciences and Agricultural & Bio-Systems Engineering. The trained 6000 professionals will contribute to the scientific advancement in the agriculture sector, especially in the South Punjab.
2. To increase the enrollment from 4603 to 10590 with the increase of more 25 new degree programs in coming five years.
3. To provide 700 students (350 females & 350 males), thus creating comfortable environment for studies / research.
4. To create more space for 350 student's / faculty members to consult with books / literature.
5. To Provide best transportation facilities to more than 180 students daily after procuring 02 Nos Buses.
6. To provide residential facilities to 19 families of university faculty / staff and perform better for the institution with peace of mind.

7.1.2. Strengthening of Muhammad Nawaz Shareef University of Agriculture, Multan

An ADP Project titled "Strengthening of MNS-University of Agriculture Multan" at a cost of Rs.646.600 million was approved with the Gestation period of 48 months (2022-23 to 2025-26). The project proposal includes the Girls Hostel (45076 Sft) with Capacity of 250 students each, Sports Gymnasium (40910 Sft), Overhead Water Tank with 1.5 cusec turbine (50,000 Gallons), ICT Equipment & Networking, Student Buses and Furniture & Fixture.

During financial year **2022-23** funds amounting of Rs. 39.587 million were allocated and same was released. However, additional funds amounting to Rs. 70.000 million were demanded to execute the activities under civil work and same was released. Therefore, total expenditure was incurred during the year Rs. 109.087 million. The physical progress of scheme is as under:

1. Female Hostel: Excavation and footing concrete work completed and shuttering of column work is in progress.
2. Sports Gymnasium: Excavation work completed, footing concrete work in progress.

During Financial Year **2023-24** funds amounting to Rs. 297.960 million were allocated and an amount of Rs. 97.389 million has been released so far. An expenditure of Rs. 97.260 million has been incurred so far during the year 2023-24.

Physical Progress of scheme during FY 2023-24 given below:

In Female Hostel R.C.C Plinth Beams and R.C.C Column completed and in Sports Gymnasium F x P work completed and column work above FxP work was in progress.

During Financial Year **2024-25** funds amounting to Rs. 309.053 million were allocated and an amount of Rs. 234.073 million has been released so far. An expenditure of Rs. 204.202 million has been incurred so far during the year 2024-25.

Physical Progress of scheme during FY 2024-25 given below:

Girls Hostel: Structure work, Dummy Column work, parapet work completed and Plastering of Ground Floor completed and First Floor is in Progress.

Sports Complex: Structural work upto 2nd Floor completed and 3rd Floor in progress. Brick work in Ground Floor completed and 1st Floor in progress.

Overhead Water Tank: Structure completed and Finishing work is in progress.



Overall Financial Progress of scheme is as under below:

Year	PC-I Allocation	Release	Expenditure
2022-23	39.587 M	109.587 M	109.587 M
2023-24	297.960 M	97.389 M	97.260 M
2024-25	309.053 M	234.073 M	204.202 M
Total	646.600 M	441.049 M	411.049 M

In Female hostel, its output focus on residential facilities will be provided to 250 female students in each semester and a comfortable environment for studies and its purpose of targeting the conducive learning environments provided to the female students.

In Sports Gymnasium, its output focus on the facility will produce a healthy, trained and skilled workforce around 6000 students and its purpose of targeting to produce healthy and skilled environments. Its comprises of Badminton Court, Volleyball Court, Basketball Court, Table Tennis, Exercise Gym etc.

The major objectives of the proposed project are as under:

- i. To provide better opportunities of higher education to the students of Southern Punjab as well as better educational facilities in agriculture may attract students from other districts of the province.
- ii. Develop a trained and skilled workforce having a focus on innovation, value addition and entrepreneurship, capable of employing knowledge inputs for the rapid and sustainable development of Pakistan.
- iii. To provide a better and conducive learning environment to the students through proposed sports, hostel and transport facilities.

7.1.3. National Crop Genomics and Speed Breeding Center for Agriculture Sustainability

An ADP Project of Rs. 450.00 million for “National Crop Genomics and speed breeding Center for agriculture Sustainability” at MNS-University of Agriculture Multan was approved with the execution period of 60 months (2021-22 to 2025-26).

During FY **2021-22** An amount of Rs. 122.920 million were allocated and same was released. The total expenditure was incurred during the year Rs. 122.920 million. The civil work of the foundation has been completed.

During FY **2022-23** an amount of Rs. 200.00 million were and same was released. However, additional funds Rs. 50.000 million were demanded to execute the activities under civil work. And same were released. Therefore, total expenditure was incurred during the year Rs. 250.000 million.

Physical Progress of the scheme RCC roof comprising of 40,000 sft out of 53706 sft was completed. Brick masonry and internal plastering of three joints completed.

During Financial Year **2023-24** the financial position of the scheme funds Rs. 100.000 million were allocated and an amount of Rs. 50.364 million has been released. An expenditure of Rs. 56.364 million has been incurred during the year 2023-24.



Physical Progress of scheme during FY 2023-24 first half building portion (Front Block) completed. handover to the estate care and regular classes of students have also conducted there. Second half building portion (Back Side) structure work completed and plastering, flooring is under progress.

During Financial Year **2024-25** the financial position of the scheme funds Rs. 43.636.000 million were allocated and same amount has been released. An expenditure of Rs. 11.203 million has been incurred during the year 2024-25.

Overall Financial Progress of scheme is as under below:

Year	Allocation	Release	Expenditure
2021-22	122.920 M	122.920 M	122.920 M
2022-23	250.000 M	250.000 M	250.000 M
2023-24	100.000 M	56.364 M	56.364 M
2024-25	43.636	43.636 M	11.203 M
Total	516.556 M	472.920 M	440.487 M

The main output of scheme “National Crop Genomics and speed breeding Centre” for the establishment of wheat & Cotton Genome database and also provide the lab facilities for the experimentation. The outcome of the project will be generated for wheat (12 varieties) and cotton (40 varieties). Moreover, 400 persons including students & professionals per annum will get benefits from training workshops, seminars and capacity building.

The proposed project “National Crop Genomics and Speed Breeding Centre for Agriculture Sustainability” will help the agriculture Sector in achieving its aims of provision of quality food and improve income of the formers through competitive economic farming.

The main objective of NCG&SBC is to explore the genomic information and historic genetic background of major crops; wheat and cotton, with possible fast track solutions of the issues including insect/pest complex, climate change and produce quality to ensure food security in the country in particular and in the region in general. The specific objectives are:

1. Acquisition, maintenance, and characterization of germplasm for genetic purity – a base for genotyping.
2. Genome sequencing of indigenous germplasm to explore genomic information.
3. Upgrading and accelerating conventional breeding through integration of genomics.
4. Capacity building of Human Resource in new Genome/Genetic Techniques.

7.2. Completed Annual Development Programs

The University has completed some important development projects consisting of basic infrastructure of the University. The project wise brief introduction of scope is as under.

7.2.1. Establishment of MNS University of Agriculture, Multan Phase-II

One ADP Project of Rs. 1510.243 Million was approved with the execution period of 48 months up to June 30, 2019. Due to less funding in FY 2018-19, the time/cost overrun. Consequently, the scheme was revised at a cost of



Rs. 1746.258 million and the project execution period also extended for one year (Up to June 30, 2020). An amount of Rs. 1743.989 million has been consumed till June 30, 2020. Project activities have been 100% completed including 22 and other allied activities within the stipulated period.

An amount of Rs.1333.438 million was allocated for the construction of physical infrastructure i.e. Academic Block, Administration Block, Boys Hostel, Girls Hostel, Faculty Hostel, Residences, Boundary Wall and Allied External Services.

The MNS University of Agriculture, Multan awarded the contract of all civil work modules and the construction work on all University buildings has been completed. An amount of Rs. 1333.438 million was released up to FY 2019-20 for the civil works and out of which Rs. 1333.429 million has been consumed. University Boundary Wall of 12,145 Rft (running feet), Building of Administration Block, Academic Block, Boys Hostel, Girls Hostel, Faculty Hostel, Residences, Motor Vehicle Shed, Overhead Reservoir, Water Supply, Sewerage, Roads and other External Services have been completed.

Under the project, an amount of Rs. 189.295 million was released for the procurement of Lab and ICT Equipment up to FY 2019-20 from which Rs. 189.202 million has been consumed and 760 equipment have been procured and established twenty-four labs.

An amount of Rs. 39.745 million was released for the procurement of Furniture & Fixture up to FY 2019-20. The necessary furniture & fixtures have been procured and established the classrooms, hostels, and guest house.

An amount of Rs. 49.304 million has been provided under Farm Development and other components. The university leveled the 500 Acres of barren land at Jalalpur Pirwala and constructed a 4816-meter-long Water Course for irrigation purposes. The University converts this barren land into the research/ experimental stations and it is very useful for research students and faculty members to perform research activities.

7.2.2. Provision of Fresh Irrigation Water and Other Basic Infrastructure Facilities at Jalalpur Pirwala (JPPW) Farm of MNSUAM

Another ADP Project of Rs. 170.00 million for fresh irrigation water and other basic infrastructure facilities at JPPW Farm of MNSUAM was approved with the execution period of 24 months (2019-20 to 2020-21).

The major objective of the project is to provide fresh water for irrigation to bring 250 acres of land under cultivation, which cannot be brought under cultivation as the canal water is too short to meet the requirement and groundwater is highly brackish. The project aims at providing some infrastructure which is missing at present, but is essentially required at the farm for research and experimentation for the graduate as well as postgraduate students and faculty members.

Other components of the project include provision of sheds for farm machinery and implements, farm animals, farm produce and stores for the inputs. Establishment of training halls for capacity building of the farmers is also one of the project objectives. The project objectives are elaborated as below:

- i.. Installation of two turbine tube wells near the bed of River Chenab for sweet/fresh water supply for irrigation along with underground conveyance system to meet canal irrigation water shortage during Kharif season and to meet demand of Rabi season.
- ii. Construction of sheds for keeping of agricultural machinery and farm animals for prolonged life of implements and safety of farm animals.



- iii. Construction of stores for inputs and sheds for farm produce for bulk purchase of inputs and safety of the farm produce.
- iv. Construction of training halls for capacity building of the farmers and other stakeholders.

An amount of Rs. 170.00 million was released up to FY 2020-21 and the same has been consumed to carry out the Civil Work including laying of 9 KM pipeline for irrigation water, animal shed, input store, implement shed, training hall and boundary wall. Furniture and Fixture has also been procured for the training hall.

7.2.3. Construction of Central Library at MNS University of Agriculture, Multan

The Honorable Minister (Caretaker) for Agriculture, Sardar Tanveer Ilyas Khan donated Rs. 20.00 Million from his own pocket during his kind visit to MNSUAM and 10.00 Million were also contributed by the University from its own sources for the Construction of Central Library (Ground Floor) having a covered area of 10,450 Sq Ft. The construction work of the library has been completed and an amount of Rs. 29.986 million is disbursed for the Central Library Building up to date.

The University Library and Collection Services provide fundamental support for students, researchers and staff, complementing academic activities. Libraries are collections of books, journals, periodical publications, including magazines, scholarly journals, books published as part of a series and other sources of recorded information.

Library is an essential part of the University which is the main source of learning for students as well as faculty members. Library provides a learning environment for students to achieve their goals and keep in touch with books to build the nation. The primary function, of course, is research. Students and professors alike use libraries to research their topics for papers, thesis, books, papers, journals, etc. Number of books available has increased over the years as under:

Year	Financial Year	Books
1	2016-17	2976
2	2017-18	4436
3	2018-19	5009
4	2019-20	5350
5	2020-21	5384
6	2021-22	5471
7	2022-23	5543
8	2023-24	
9	2024-25	

7.2.4. Construction of Masjid Fatima-Tu-Zahra at Muhammad Nawaz Shareef University of Agriculture Multan

The competent authority decided to construct Central Mosque for 3000 person's capacity having covered area of 23000 Sq Ft consisting of one Prayer Hall, One Veranda, Two side rooms, 2 Nos Ablution area and Library with the estimated cost of Rs. 93.00 million. The drawing/design of the mosque is prepared by M/S Mirza Nasir Associates in a Turkish Style. In this connection, the University requested for donation to construct the Mosque and Rs. 10.99 million was collected from donations. The scheme was approved by the competent authority in FY 2021-22 amounting to Rs. 91.043 (M) with the



execution period of 24 months. During FY 2021-22 the physical progress of project the Masjid Hall completed up to roof Level. FY 2022-23, the estimate was revised from Rs.93.00 million to Rs.98.31 million with the execution period of 24 months. Up to June 30, 2023 total funds amounting to Rs.76 million has been Utilized. The structure work has been completed and finishing work is in progress.

During Financial Year 2023-24, the financial position of project the estimate was also got revised from Rs.98.31 Million to Rs.116.710 Million. Up to June 30, 2024 total funds amounting to Rs. 101.998 Million has been utilized. Physical Progress of project is that Hall and Veranda has been completed. Library and Ablution Area finishing in progress.

During Financial Year 2024-25, the total expenditure of Rs.3.182 million has been incurred.

Physical Progress of project Library and Ablution Area Gray Structure is completed.

The main role of this foundation provides a welcoming and spiritual environment where community members pray with peace of mind and a sense of belonging.

7.3. University Farms

The Directorate of Farms at MNS University of Agriculture, Multan operates two key research farms that play a vital role in supporting the university's academic, research, and outreach activities. The first research farm, located at Chak 84-M, Jalalpur Pirwala, spans over 507 acres, while the second farm, situated at the main campus in Mouza Rangeel Pur, comprises 180 acres, of which 60 acres are currently under cultivation for various crops, and the remaining area accommodates university buildings, lawns, and horticultural landscapes. These farms provide essential infrastructure for field-based research and serve as living laboratories for practical training of undergraduate and postgraduate students across various agricultural disciplines. In addition to academic use, the farms also serve as model sites for disseminating improved agricultural practices to the farming community.

During the reporting period, significant development work was carried out at both farms to enhance their operational efficiency and capacity. Infrastructure improvements included the installation of solar-powered tube wells to ensure sustainable water use. Research and demonstration activities were expanded, with a focus on high-yielding and climate-resilient crop varieties, innovative intercropping systems, and the introduction of underutilized crops such as buckwheat, quinoa, and millets. Organic farming blocks and low-input agricultural trials were also initiated. The farms actively supported student learning through hands-on training, field visits, and practical modules. In collaboration with various departments and external partners, a number of research trials were executed. Efforts were also made to extend the university's outreach through farmer field days, community awareness sessions, and collaborative projects with other organizations. Environmental sustainability was a key focus, with the plantation of over 10,000 trees and establishment of composting units. These initiatives not only enhanced farm productivity but also aligned the university's farm operations with national goals on climate resilience and green agriculture. Moving forward, the Directorate of Farms is committed to transforming these facilities into centers of excellence for applied agricultural research, mechanized farming, and innovation-driven education.:

7.3.1. Agricultural Farm, Jalalpur Pirwala

- After completion of bulldozer work and laser land leveling over 507 acres at University Farm, Jalalpur Pirwala, the major challenge was to reclaim saline-sodic soil irrigated with brackish underground water. This challenge was success fully met, and the entire 507 acres have now been brought underutilization.
- The canal system at Jalalpur Pirwala is non-perennial, with water available only from mid-April to mid-October.



To improve canal water efficiency, the mogha was shifted towards the head, and a 1,730 foot long lined water course was constructed.

- To supplement irrigation during winter and as needed in summer, two electric turbines have been installed to fetch irrigation-quality water from 6 kilometers away. This water is being effectively used for crop irrigation.
- During 2024-245, the land use status is now as follows: 350 acres under annual crops, 47 acres under orchards, 50 acres under forestry, 25 acres under organic farming, 4 acres reserved as fallow land (for bees and pollinators), 30 acres under infrastructure (buildings, roads, watercourses, ponds, etc.), and 1 acre kept unlevelled to depict the original condition of the farm.
- Approximately 56,000 plants of various tree species including gum Arabic, Albizia lebbeck, neem (Indian lilac), Indian beech, jujube, pomegranate, guava, and fig have been planted along roadsides, water channels, and in high-salinity belts, contributing to the farm's greening and ecological restoration.
- Successful adaptability trials for olive cultivation have been conducted, and a 10-acre olive plantation under drip irrigation is currently being established.
- Fish farming activities are currently ongoing, adding to the farm's diversification and sustainable land use initiatives.
- A project for the construction of a livestock shed, input/output stores, seed storage facilities, farmers' training halls, and a machinery shed has been successfully completed.
- Major crops grown during Rabi included wheat, oat, raya, and lucerne, while during Kharif season, cotton, millet, guar, mungbean, sorghum, maize, and jantar were cultivated. Additionally, sesbania was sown for green manuring to enhance soil organic matter.
- Farmer field days focusing on wheat and cotton productivity enhancement, as well as wheat harvesting (Baisakhi) events, were organized for knowledge sharing and community outreach.
- A comprehensive field visit was arranged for all university faculty members to provide awareness about the farm's progress and development.
- A ten-year strategic plan for the University Farms at Jalalpur Pirwala has been developed, and its implementation has been initiated.
- A mango orchard spanning 7 acres, comprising approximately 3,500 mango plants, was successfully established under the Water Regeneration and Environmental Sustainability Project in collaboration with Nestlé Pakistan.
- Around 10,000 tree saplings were planted under Project IP-31, in collaboration with SNGPL, as part of the "Establishment of Carbon Offsetting Plantation under the Climate Change Scenario."
- An Eddy Flux Tower has been installed at the Jalalpur Pirwala Research Farm under a collaborative project with the Food and Agriculture Organization (FAO) of the United Nations, to measure carbon fluxes, evapotranspiration, and energy exchanges.

7.3.2. Agricultural Farm, Main Campus, Multan

- A total of 180 acres of land was allotted to the University at Mouza Rangeel Pur, Multan, out of which 60 acres are designated as the University Farm. The remaining area is reserved for academic buildings and campus infrastructure.
- The farm area was previously encroached upon by illegal occupants; however, complete possession has now been regained, and the entire 60 acres are under cultivation.
- High-tech infrastructure has been developed in the C-block area, including a hydroponic system, floppy sprinkler irrigation system, greenhouses, containment/quarantine facility, and crop tunnels to facilitate advanced agricultural research and student learning.
- Additional facilities established at the farm include a functional fishpond, poultry shed, water treatment ponds, a small-tree mango orchard system, a citrus block, and kitchen gardening units for hands-on student training and demonstration.



- Major crops cultivated during the 2024-25 growing season included wheat, cotton, maize, chickpea, soybean, berseem, and sorghum, showcasing a diverse cropping pattern.
- A wheat field day was organized during the visit of international delegates from Australia and the Islamic Organization for Food Security (IOFS), to demonstrate hybrid wheat varieties and advanced wheat lines developed by the University.
- Regenerative agriculture trials were launched in collaboration with Syngenta Pakistan (Pvt.) Limited as part of the farm's ongoing efforts in sustainable farming research.
- Ongoing research projects under ACIAR (Australian Centre for International Agricultural Research) and PARB (Punjab Agricultural Research Board) are being conducted at the Multan Farm during the year 2024–25.
- The Color Cotton Project, in collaboration with Mehmood Textile Mills, is also being implemented at the farm to explore value-added cotton production.
- Solar conversion of tube wells in Blocks B and C has been completed to enhance energy efficiency and promote renewable energy use in farm operations.
- A Botanical Urban Garden has been established in Block A, in front of the Vice Chancellor's residence, to serve as an aesthetic and educational resource for visitors, students, and faculty.
- During the year 2024–25, a total income of PKR 44.765 million was generated from both University Farms (Jalalpur Pirwala and Main Campus, Multan)



Strengthening of Technological Infrastructure





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 also ensures a secure, reliable, and efficient IT environment where optimized results can be attained. The Directorate of IT played a pivotal role in realizing the vision and mission of the MNS University of Agriculture, Multan, by strengthening the ICT Infrastructure and facilities. There were two major streams of development.

- 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 Switches are next- generation managed switches that offer excellent performance, rich features, and ease of use. With support for Layer 2 and Layer 3 features, advanced security, routing, and energy-saving technology, they deliver a solid foundation for business applications today and in the future. IP Core was upgraded to Catalyst 2960-X switches to provide high routing, switching, and security features.

8.1.2. Cisco 3504 WLC Setup

The Cisco Wireless LAN Controller (WLC) 3504 was deployed. This centralized controller ensures a secure and high-performance wireless internet experience within the campus.

8.1.3. Network Security Update Fortigate-200E

The FortiGate 200E series next generation firewall was deployed at the University. Firewalls provide high protection against cyber threats with high-powered security processors for optimized network performance, security efficacy, and deep visibility. Fortinet's Security-Driven Networking approach provides tight network integration for the new generation of security.

8.1.4. IP Unified Communication Panasonic KX-NSX2000

At the university, Panasonic's VoIP exchange communication hardware has been deployed, with SIP (Session Initiation Protocol) configured to ensure seamless connectivity both within and outside the campus. A total of 150 VoIP phones have been installed across various departments and offices to support efficient and reliable communication.

8.1.5. Security and Surveillance System

Over 200 PoE-enabled IP cameras were installed across the campus to strengthen surveillance and security. A centralized control room was established to manage real-time video feeds and enhance incident response capability.



8.1.6. Computer Labs

Four modern computer laboratories have been established in the academic building equipped with the latest desktop GPU-based high-performance computers along with software installed. One of these labs has been provided with high-performance computing facilities with secure internet access to support academic and research needs.

8.1.7. Fiber Optic Backbone Links

All buildings at the University have been linked by fiber optic cable. This service provides high speed network services to the staff and students.

8.1.8. Video Conference Rooms Setup

There are five video conference rooms for staff and students. One more video conference room is being developed for meetings with Foreign Visitors and Governments. These rooms are equipped with Multimedia, an LED TV, a sound system, and internet facilities.

8.1.9. Multimedia classrooms

To enhance the quality of teaching and learning, the university has equipped every classroom and computer lab with multimedia projectors. Moreover, 60 projectors were installed to ease the students' learning across the university blocks.

8.1.10. Video Conferencing Solutions

The university has arranged a high-definition Video Conference System for official online meetings, national and international webinars, and conferences. The video conference system provides participants with smooth and natural audio-visual effects and a comfortable and immersive experience for teleconferencing.

8.1.11. Digital Outdoor Displays (SMDs)

There are digital display devices installed at different locations of the university that display information in a digital format on large screens. There will be a prompt display of information/announcements regarding current events/activities.

8.2. ICT Software Services

8.2.1. Webinar/Meetings

The IT Directorate has been supporting the faculty and students in conducting online meetings/webinars using Cisco WebEx Enterprise, Zoom Meeting, and Microsoft Teams. Especially during COVID-19, this really helped the University conduct online classes and meetings. Hundreds of meetings/conferences/webinars (national and international) have been conducted successfully during the year.

8.2.2.1. PERN Update

The University upgraded its PERN subscription from P1 to P2, increasing internet bandwidth from 200 Mbps to 300 Mbps. The P2 subscription also includes enterprise licensing for Microsoft Office 365 and Windows OS.



8.2.2.2. Newly Installed WATEEN Connection

The university also engaged a new ISP Connection from Wateen Telecom of 150 MB Now Increase to 225 MB Fiber Optic for Backup of the second internet source that is running properly to avoid any inconvenience.

8.2.3. Website Update

The IT Directorate is managing the official website as well as launching project-related websites for faculty and students. The university's official website was updated from WordPress to Joomla, a free and open-source content management system. Web links to various online systems have been uploaded to university websites.

8.2.4. Cybersecurity and Endpoint Protection

The Directorate of IT purchased Endpoint Security Cloud Plus was deployed university-wide, offering proactive defense against malware, ransomware, and other emerging cyber threats. University installed the Fortinet FortiGate 200E firewall that ensures advanced threat protection and bandwidth management for secure, stable university network operations. It enables role-based access control, safeguarding academic data and online resources.

8.2.5. LMS System Update

During the COVID-19 pandemic, the Directorate of IT, with the support of the Department of CS, deployed the Moodle LMS System and Google Classroom hosted on local servers and conducted online classes and online entry tests for the second time. This facility greatly added value to the automation of the University and provided uninterrupted education facilities to students and faculty. Currently, Blackboard LMS, implemented under the SAP project, provides a centralized and secure platform for managing course content, assessments, and student engagement.

8.2.6. Google G-Suite Services

All staff and students have access to Google's Corporate G Suite services. These services consist of Email, Word, Excel, PowerPoint, and unlimited Google Drive. All students were provided G-Suite accounts this year, which greatly enhanced their productivity and collaboration. These services are managed by the Directorate of IT.

8.2.7. Digital Services and Automation

- Microsoft Dynamics 365 ERP was implemented to automate and streamline workflows in finance, human resources, procurement, and inventory management.
- Implementing SAP system in a university under HEDP project of HEC for streamlines and automates administrative processes such as finance, HR, procurement, and student lifecycle management.
- Admission System (<http://admission.mnsuam.edu.pk>)
- Faculty Information System (<https://fis.mnsuam.net/>)
- Development of web-based system for Agricultural Sciences Journal (ASJ) <https://asj.mnsuam.net/>
- Developed a complaint system (<https://complaints.mnsuam.edu.pk/>).



- Developed Job Portal System (<https://eportal.mnsuam.edu.pk/>).
- Developed a cotton Internship Mobile Application (<https://agri-internship.mnsuam.edu.pk>)
- Card Management System (<card.mnsuam.edu.pk>)

8.2.8. 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.

8.2.9. Virtual Machine Support Provided

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



Universities Building Communities



Universities Building Communities



Universities Building Communities





UNIVERSITIES BUILDING COMMUNITIES

Community service and empowerment are among the top priority agendas of the MNSUAM. The table below provides an overview of the community centric events and activities undertaken during 2024-25.

9.1. Community Centric Events and Activities

Sr. No.	Event Title	Date	Nature of Event	Beneficiaries
1	8 th Mango Festival at Centaurus Mall, Islamabad	05/07/2024	Agricultural Exhibition	Mango Farmers, Public
2	1 st Mango Festival at Kohsar University, Murree	07/07/2024	Agricultural Outreach Event	Students, Farmers, Public
3	Scientific Writing Certificate Training	09/07/2024	Training Program	Postgraduate Students, Researchers
4	Pakistan-Senegal Collaboration at EMIA University	14/07/2024	International Collaboration	Faculty, Researchers
5	Deputy Commissioner Visit for ADP Projects	23/07/2024	Govt. Monitoring Visit	University Administration
6	Mango Festival 2024 at MNSUAM	26/07/2024	Agricultural Festival	Mango Growers, Govt. Officials, Public
7	Independence Day Celebrations	14/08/2024	Celebration of National Day	University faculty members and students
8	AOC Between MNSUAM and Yumna Overseas Employment	16/08/2024	MoU	University Administration
9	Awareness Seminar on Breastfeeding	26/08/2024	Seminar	Students, Faculty, Public
10	PepsiCo Agro Internship Recruitment	11/09/2024	Career Placement Drive	Graduates, PepsiCo
11	Mehfil Zikr-e-Pyambar-e-Aman	13/09/2024	Religious/Spiritual Gathering	Students, Faculty, Public
12	Roundtable on Rhodes Grass Cultivation	19/09/2024	Agricultural Conference	Farmers, Industry Experts
13	Scientific Writing Certificate Training	20/09/2024	Training Program	Researchers, Students
14	International Smart Plant Protection Conference	30/10/2024	Scientific Conference	Plant Protection Scientists, Students
15	Seminar on Combating Violence Against Women	29/10/2024	Awareness Seminar	Community Members, Law Enforcement
16	Seminar on Ornamental Plants & Pollution	10/10/2024	Environmental Seminar	Farmers, Researchers, Students

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17	Study Tour to Mithawan Hill Torrent (Spate Agriculture)	13/10/2024	Field Tour	Agronomy Students
18	Breast Cancer Awareness Seminar	16/10/2024	Health Awareness Event	Female Students, Faculty, Public
19	World Food Day Seminar	16/10/2024	Food Security Seminar	Food Industry, Faculty, Students
20	Certified Mango Nursery Training	17/10/2024	Hands-on Training	Farmers, Horticulture Students
21	Hands-on Training in Plant Protection Techniques	05/11/2024	Agricultural Training	Plant Protection Students
22	Visit by Indonesian Embassy Official	12/11/2024	Diplomatic Visit	Faculty, Researchers, Trade Stakeholders
23	4 th Annual Chrysanthemum Exhibition	19/12/2024	Floriculture Exhibition	Horticulture Students, Public
24	Farmer Convention on Wheat Productivity	25/11/2024	Farmer Awareness Seminar	Farmers, Agronomy Experts
25	Sports Gala 2024	26/11/2024	Sports Event	University Students and Staff
26	International Day of Persons with Disabilities	03/12/2024	Inclusion Awareness Program	Differently-abled Students
27	TDAP Seminar on Lucerne & Rhodes Grass	01/09/2024	Export Promotion Seminar	Farmers, Exporters, Govt. Officials
28	Venture Spark 2024 – Food Value Addition Competition	10/12/2024	Student Competition	Students, Food Industry
29	Honhaar Scholarships Award Ceremony	06/01/2025	Scholarship Distribution	Students (402 from MNSUAM)
30	Fauji Fertilizer Company Delegation Visit	27/01/2025	Industry Collaboration Meeting	Students, Faculty, Farmers
31	ACIAR Delegation Visit for Hybrid Wheat Project	29/01/2025	International Research Review	Faculty, Researchers
32	ICAC Delegation Visit	06/02/2025	International Research Collaboration	Cotton Researchers, Faculty
33	Eddy Covariance Flex Tower Inauguration at Jalalpur Peerwala	08/02/2025	R&D Event	Faculty, Researchers
34	Blood Donation Camp	11/02/2025	Health & Welfare Activity	Students, RBC Multan

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35	Webinar on AI Tools for Research	12/02/2025	Academic Webinar	Students, Faculty, Researchers
36	Ambassador of Argentina Visit to MNSUAM	17/02/2025	Diplomatic Visit	University Administration
37	Seminar on Youth Resilience and Countering Extremism	24/02/2025	Seminar	Farmers, Researchers, Students
38	NAHE National Outreach Program for Higher Education Phase II	17/02/2025	Training Program	Faculty, Researchers
39	Welcome Ramadan Seminar	01/03/2025	Religious/Spiritual Seminar	Students, Faculty
40	Farmer Field Day	02/03/2025	Agricultural Outreach Event	Farmers, Agronomy Experts
41	Golden Jubilee Session of MNSUAM Literary Club	03/03/2025	Cultural/Literary Celebration	Students, Faculty
42	MoU Between MNSUAM and Mahmood Group	07/03/2025	MoU Signing	University Administration, Industry
43	Seminar on Impact of Alien Plant and insect Species on Pakistan's Agriculture	13/03/2025	Environmental Seminar	Researchers, Students, Policy Makers
44	Seminar on Blessings and Spiritual Demands of Ramadan	17/03/2025	Religious/Spiritual Seminar	Students, Faculty, Public
45	Training Workshop on Pesticide Stewardship	20/03/2025	Agricultural Training Workshop	Farmers, Extension Workers, Students
46	Seminar on Revolutionary Use of Robotics and Automation in Agro Based Industry	21/03/2025	Tech Innovation Seminar	Students, Researchers, Industry Experts
47	World Food Day Celebrations	21/03/2025	Awareness Program	Students, Faculty, Food Industry
48	Carbon Offsetting Tree Plantation Campaign	25/03/2025	Environmental Campaign	Students, Faculty, Public
49	US Consul General Visit to MNSUAM	09/04/2025	Diplomatic Visit	University Administration
50	Punjabi Culture Day Celebrations	14/04/2025	Cultural Event	Students, Faculty, Public
51	2 nd South Punjab Library Festival	16/04/2025	Literary Festival	Students, Library Professionals
52	Awareness Seminar on Nationwide Promotion of Zinc Biofortified Wheat	18/04/2025	Awareness Seminar	Farmers, Researchers, Students
53	MNSUAM Launch of New Bus Service to Muzaffargarh	21/04/2025	Student Welfare Launch	University Students

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54	TIKA Delegation Visit to MNSUAM	23/04/2025	International Delegation Visit	Faculty, Researchers
55	Training Workshop on Food Safety Systems and Risk Management	24/04/2025	Training Workshop	Food Industry Professionals, Students
56	Seminar on World Book and Copyright Day	25/04/2025	Educational Seminar	Students, Faculty, Authors
57	Solidarity Seminar with Oppressed Muslims of Gaza and Palestine	27/04/2025	Solidarity/Awareness Seminar	Students, Faculty, Public
58	Interactive Session for Young Food Technologists	30/04/2025	Academic Interaction	Food Science Students
59	5 th International Conference on Bee Pollination and Conservation	20/05/2025	Scientific Conference	Researchers, Entomologists, Students
60	Launch of Mobile Soil and Water Testing Laboratory	22/05/2025	Launch Ceremony	Farmers, University Researchers
61	National Symposium on Sustainable Soil Health Management	22/05/2025	Scientific Symposium	Soil Scientists, Students, Farmers
62	Celebration of Defense Day	28/05/2025	National Day Celebration	Students, Faculty, Staff
63	Seminar on Innovation, Commercialization and IP Protection	29/05/2025	Academic Seminar	Researchers, Students, Industry Representatives
64	Farmer Field Day	31/05/2025	Agricultural Outreach Event	Farmers, Agronomists
65	Inauguration of Botanical Garden at MNSUAM	04/06/2025	Environmental Inauguration	Students, Faculty, Public
66	Graduation Ceremony of Department of Food Science and Technology	20/06/2025	Convocation Ceremony	Graduating Students, Faculty, Parents

9.2. Short Courses

Sr. No.	Project Name	Course Name	Duration	No. of Participants	Funding Agency
1	Prime Minister Youth Skills Development (Batch-II) Summer of Code	Advance Web Application Development	15-07-2024 to 24-10-2024	15	NAVTTTC
2	University Short Courses	Digital Marketing and E-Commerce Batch-I	03-07-2024 to 09-08-2024	33	Uni. Short Courses

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3	University Short Courses	Digital Marketing and E-Commerce Batch-II	03-07-2024 to 09-08-2024	31	Uni. Short Courses
4	University Short Courses	Computer Application in Office Batch-I	04-07-2024 to 26-08-2024	43	Uni. Short Courses
5	University Short Courses	Computer Application in Office Batch-II	04-07-2024 to 26-08-2024	47	Uni. Short Courses
6	University Short Courses	Graphic Designing	04-07-2024 to 26-08-2024	55	Uni. Short Courses
7	University Short Courses	Spoken English Batch-II	26-06-2024 to 30-08-2024	57	Uni. Short Courses
8	University Short Courses	Japanese Language and Culture Batch-III	15-08-2024 to 14-12-2024	17	Uni. Short Courses
9	University Short Courses	Graphic Designing	02-12-2024 to 16-01-2025	21	Uni. Short Courses
10	University Short Courses	Computer Application in Office B-III	16-12-2024 to 10-02-2025	26	Uni. Short Courses



Directorate of Sports



Directorate of Sports





Directorate of Sports

Sports play a vital role in both individual and societal development by contributing to physical well-being, mental resilience, and social cohesion. In the context of higher education, sports are especially important for nurturing leadership skills, promoting teamwork, and instilling discipline among students. Sports activities are designed not only to enhance physical fitness but also to create an inclusive and motivating environment that encourages students to participate in competitive events at institutional and national levels. The primary objective is to offer students ample opportunities to maintain a healthy lifestyle while developing strong character and positive personality traits.

At the university level, the Directorate of Sports serves as a cornerstone of student development, actively promoting a culture of physical activity, sportsmanship, and holistic growth. It provides well-structured sports facilities and opportunities for both male and female students, as well as faculty members. A dedicated system has been implemented to motivate and guide students in participating in a variety of sports. Furthermore, the Directorate collaborates with professional coaches and experts across different sports disciplines to ensure high-quality training and skill development. Its programs encompass intramural (within the student body), extramural (among various university faculties), and inter-university competitions at the national level. The establishment of the Sports and Recreational Club (SARC) will play a pivotal role in fostering a vibrant sports culture among students and faculty. It aims to promote active participation, encourage healthy competition, and create opportunities for recreational engagement that contribute to physical well-being and community building within the university.

The sports committee consists of following members

- Prof. Dr. Muhammad Ashfaq
 - Dr. Muhammad Arslan Khan
 - Dr. Mirza Abid Mehmood (Male DSA)
 - Dr. Nighat (Female DSA)
 - Mr. Qaisar Javed
- Convener Sports
Director Sports
Member
Member
Sports Coach

Sr. No.	Sports Activities	Venue	Male	Female	Date
1.	HEC Prime Minister's University sports Olympiad	Islamabad	25	-	20-26 Nov, 2024
2.	Indoor Sports Gala 2024	MNSUAM	180	150	26-28 Nov, 2024
3.	Outdoor Sports Gala 2024	MNSUAM	350	50	17-20 Dec, 2024
4.	University Football Team Selection Camp	MNSUAM	30	-	20 Jan, 2025
5.	Intraversity Football Championship	MNSUAM	80	-	26-26 Feb, 2025
6.	Female Basketball and Cycling Event	MNSUAM	05	30	27 Feb, 2025

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7.	38th Men HEC All Pakistan Intersity Weightlifting Championship 2024-25	UMT Lahore	05	-	16-18 April 2025
8.	All Punjab Young Haidri Flood light Football Tournament	Khan Grah	15	-	15 June, 2025
9.	Basket Ball Camp for University Team Selection	MNSUAM	30	-	May-June 2025
10.	Badminton Camp for University Team Selection	MNSUAM	20	-	May-June 2025



Universities Building Leadership



Universities Building Leadership



Universities Building Leadership



Universities Building Leadership





UNIVERSITIES BUILDING LEADERSHIP

11.1. Faculty Leadership (Awards and representation in govt. policy making committees, memberships on various councils etc.)

- The MNSUAM is the member of various governing bodies of Higher Education Commission i.e. the Vice Chancellors' Committee Meeting, MS leading to Ph.D Program, Curriculum Revision Committees, and Quality Assurance etc.
- University is also contributing to the District Government Task Force for Anti-Adulteration, and Anti-Dengue Campaign.
- University is actively involved in policy making regarding mango fruit fly, mango post-harvest management, supply and value chain of mango and major vegetables, Punjab Cotton Control Act 1966, pink bollworm management, cotton mission, monitoring and evaluation of field activities of Agriculture Extension Department etc.
- Prof. Dr. Shafqat Saeed (Institute of Plant Protection) is a member of Cotton Technical Advisory Committee, Punjab.
- Prof. Dr. Shafqat Saeed (Institute of Plant Protection) and Dr. Muhammad Ishtiaq (Assistant Professor, Institute of Plant Protection) are the members of Cotton Protection Advisory Board, Punjab.
- Prof. Dr. Hammad Nadeem Tahir (Institute of Plant Breeding and Biotechnology) is a member of Oilseed Research and Development Board, Punjab.
- Prof. Dr. M. 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. M. 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.
- Dr. Muhammad Saifullah (Assistant Professor, Agri. Engineering) is a member of Board of Study of the department of agriculture engineering, KFUEIT. He is also an external reviewer of QEC Department of Agriculture Engineering, KFUEIT.
- Dr. Sarfraz Hashim (Assistant Professor, Agri. Engineering) is a member of board of study of the department of agricultural engineering, BZU Multan. He is also a member of the Committee to conduct entry test of graduate studies of agricultural engineering, BZU Multan
- Dr. Umair Sultan (Assistant Professor, Agri. Engineering) is a member of National Curriculum Revision Committee (NCRC)-HEC of Energy Systems Engineering degree program.
- Dr. Sarfraz Hashim (Assistant Professor, Agri. Engineering) is a member of National Curriculum Revision Committee (NCRC)-HEC of Agro-industrial Engineering Technology degree program.
- Dr. Irfan Ahmad Baig nominated as Focal Person for MoC signed between MNSUAM and Federation of Pakistan Chambers of Commerce & Industry (FPCCI).
- Prof. Dr. Muhammad Ashfaq (Institute of Plant Protection) is a member of Survey Committee for Cotton Crop at Agriculture Department, South Punjab.
- Prof. Dr. Muhammad Ashfaq (Institute of Plant Protection) is a member of Board of Studies of Department of Plant Pathology, The Islamia University of Bahawalpur.
- Dr. Kashif Razzaq (Department of Horticulture) is a member of Board of Studies of Department of Horticulture, Bahauddin Zakariya University, Multan.
- Prof. Dr. Umar Farooq, Coordinator Faculty of Food and Home Sciences is a member of Scientific Panel of Punjab Food Authority.
- Faculty members of the Institute of Plant Protection have actively contributed to academic and administrative leadership within the university and beyond. Several faculties have served as:
 - ✓ Fellows and members of prestigious bodies such as the Zoological Society of Pakistan, Entomological Society of America, and Royal Entomological Society (UK).
 - ✓ Representatives in public-sector advisory bodies like the District Emergency Response Committee for Dengue and the Cotton Production Strategy Committee, Govt. of Punjab.



- ✓ Academic leaders within the university, holding designations such as Convener and Secretary of the Post Entry Quarantine Facility, Focal Person for the Career Development Center etc.

11.2. Directorate of Student Affairs

The Directorate of Student Affairs has the mandate to facilitate and maintain the services including admissions, welfare, sports, health care, guidance, scholarships, financial aid and hostel accommodation. The Directorate of Student Affairs has its mission to offer a variety of services, programs and activities to support and encourage the intellectual, personal, social and cultural development of students. The Directorate provides all necessary arrangements starting from the first admission inquiry to the last day at the Campus. The Directorate is also involved to check unlawful activities of the students. The Directorate also conveys the student's problems to higher administration to facilitate the students. The Directorate not only concentrates on curricular and co-curricular, but also profoundly concerned with the career building and financial assistance of the students.

The Directorate provides students different opportunities to take part in sports/games. It also provides them different platforms for the development of their literary and artistic potential. The purpose of all such activities is to provide students with a conducive environment during their academic years in the University. This office functions as a friend and guide for students and is proving a bridge between administration and students to address their genuine problems.

Following Societies/Clubs have been established to provide platform to the students for showcasing their skills and talent.

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

Different activities conducted by MNSUAM Students Clubs and Societies are presented below:

11.2.1. Celebrations of National/International Day:

- World Food Day was organized by the Department of Food Science & Technology, MNSUAM. (16-10-2024)
- Breast Cancer Awareness Day was organized by Public Health Society in collaboration with Taare Zameen Par (21-10-2014)



- MNS University of Agriculture Multan observed Kashmir Solidarity Day (February 4, 2025)
- The Qiraat & Naat Club organized the spiritually uplifting Completion of Quran event at Jamia Masjid Fatima Zahra, MNSUAM, (March 26, 2025)
- The Green Youth Movement Club and Plant for Life Society organized the World Forest Day seminar and awareness walk at MNSUAM, (March 22, 2025)
- The Office of the Senior Tutor organized the vibrant Punjab Cultural Day, (April 14, 2025)
- Organized by the Directorate of Libraries 2nd South Punjab Library Festival (17-04-2025)
- The Debating Club of MNSUAM organized an Inter-departmental Debate Competition on Labour Day themes, (May 1, 2025).
- Youm-e-Tashakur at MNSUAM, organized by the Office of Senior Tutor, featured a plantation drive, debates, flag hoisting, solidarity walk, and prayers honoring martyrs (May 17, 2025).
- Cultural Night organized by USAID at Muhammad Nawaz Sharif University of Agriculture, Multan (30-10-2024).

11.2.2. Capacity Building and Professional Development:

- Seerat-un-Nabi program was held with broadcast coverage provided by QTV. (5 July 2024)
- Azeem-o-shaan Mehfil-e-Paighambar (SAW)" was organized by QnC on (12-07-2024)
- An awareness seminar on 'Role of Youth in Peace Building' was organized by MNSUAM Youth Assembly (17-10-2024)
- The Inter-Departmental Declamation Competition was organized by the Debating Club. (22-10-2024)
- Organized by Career Development Center/Placement Bureau MNS University of Agriculture Multan, the "Recruitment Drive for Evyol Group at MNSUAM" (16th January 2025).
- Organized by Data Science & Cyber Security Society MNSUAM, the session "Be Aware of Scam" (24th December 2024)
- IIUI and Young Students Peace Society organized a session on "Advancing Inclusive and Resilient Youth Communities by Preventing Violent Extremism on Campuses", MNSUAM (February 24, 2025).
- Organized by PHS Society MNSUAM, HIV/AIDS awareness seminar. (February 13, 2025)
- The Qirat & Naat Club organized the interactive session on the Blessings of Ramadan with Moulana Abdul Wahab Attari, MNSUAM. (March 18, 2025)
- The Character-Building Society and Young Peace & Development Corps organizing the impactful drug addiction awareness session at MNSUAM. (March 18, 2025)
- The Character-Building Society and Qirat & Naat Club for organizing the Istaqbal-e-Ramzan seminar. (February 26, 2025)
- The Institute of Computing organized the International Seminar on "Artificial Intelligence Revolution" at MNSUAM, (April 16, 2025)
- Organized by the Department of Food Science and Technology, the hands-on training on "Implementation of HACCP System in Food Processing Facilities" (April 22, 2025)
- The Green Youth Movement (GYM) Club organized an inspiring training session, "From Vision to Action," at MNSUAM (April 30, 2025).
- The Department of Food Science & Technology at MNSUAM organized an interactive session, "How to Be a Food Product Sale Ambassador," (May 1, 2025).
- Green Youth Movement Club & Plant for Life Society organized the Digital Youth Hub Workshop at MNSUAM under PM Youth Programme, (May 17, 2025).



- Coding Hawks at MNSUAM organized a training session, "The Developer's Advantage: Opportunity in the Age of AI," (May 20, 2025)
- Seminar organized by Character Building Society, "Social Media: Usage, Etiquette & Ethics in the Light of Islamic Teachings," (May 21, 2025)
- Organized by Hotel Administration and Character-Building Society, Event: "Breaking the Silence: Ending the Stigma Around Mental Health," (May 22, 2025)
- The Senior Tutor Office and AI Quran Institute organized a session on "War and Our Responsibilities" with guest speaker Mr. Raja Zia ul Haq (May 23, 2025).

11.2.3. Social Drives and Volunteer Work

- Organized by the Character-Building Society and Green Youth Movement, the "Hope of Seeds for Birds" (24th December 2024).
- The Character-Building Society, RSU-UAM, Youth Social and Political Society, Qirat & Na'at Club, Literary Club, Coding Hawks, Data Science Society, Agriculture Volunteers, and MADS for collaborating to pack and distribute ration bags, organized by Office of the Senior Tutor. (March 17, 2025)
- FGRF UK hosted the special Iftar meal at Jamia Masjid Fatima-tur-Zahra, MNSUAM. (March 14, 2025)
- The Blood Donation Activity was organized by Blood Donation Society MNSUAM, (February 13, 2025).
- The Office of the Senior tutor organized the exclusive Aftaar Dinner at Jasmine Courts (Girls Hostel) and Mulberry Courts (Boys Hostel), MNSUAM. (March 25, 2025)
- HND 2nd semester students, in collaboration with the Character-Building Society MNSUAM, organized "Let's Break Stereotypes," (May 14, 2025)

11.2.4. Art, Literature and Culture

- MNSUAM Literary Club hosted Prof. Dr. Asghar Nadeem Syed for a session on storytelling and society (February 21, 2025).
- The Debating Club of MNSUAM for organizing the All-Pakistan Declamation Contest. (February 26, 2025)
- The Aadbi Baithak for organizing the Ghalib poetry celebration, MNSUAM. (February 28, 2025)
- The Young Students Peace Society and the Arts and Dramatic Society for organizing the inspiring seminar "Ramzan with Peace" (March 21, 2025)
- Organized by Literary Club on the 2nd South Punjab Library Festival a soulful Mushaira Night (April 17, 2025)
- "Bazm-e-Harf-o-Bayan" (2nd South Punjab Library Festival), organized by Literary Club MNSUAM, (April 17, 2025)
- The Literary Club of MNSUAM organized "Mawan Thandiyan Chhawan," a heartfelt tribute to mothers through poetry and prose, (May 13, 2025).

11.2.5. Entrepreneurial & Professional Skills

- Venture Spark Entrepreneurship Promoting Event Organized by BIC MNS-UAM and all Clubs and Societies participated in it (11-12-2025), event coverage provided by Naqsh Media
- The Department of Agribusiness and Entrepreneurship Development collaborated with the Department of Agricultural and Resource Economics and the Department of Agriculture to organize a seminar on "Entrepreneurship as a Career Option." (12 July 2024).



11.2.6. Awards, Participations and Services

- The Director of Sports for organizing the Intervarsity Football Championship 2025. (February 26–27, 2025)
- The Character-Building Society in collaboration with the Qirat & Na'at Club for organizing the Khazina-e-Ilm Inter-Departmental Quiz Competition 2025. (March 13, 2025)
- The "Jashn-e-Baharan Photography Competition" themed around spring elements, flowers, and university architecture, organized by Naqsh Media (March 14, 2025)
- Organized by Institute of Computing, Final Year Project Poster Competition 2025, (May 22, 2025).
- The Young Students Peace Society organized the "Discover Your Self" training session at MNSUAM, (May 16, 2025).
- Literary club participated in Layallpur Art Festival 2025(17-02-2025)
- Shane-Ramzan Quiz Competition at BZU University, Literary Club Participated in it (12-03-2025)
- All Pakistan Literary Competition was Organized University of Gujrat; Literary club participated in it (28-04-2025)
- Naqsh Media proudly secured 4th position in the National Climate Change Youth Film Festival 2024 and celebrated cyber champs winning top spots in the CTF Competition at ISP Multan. (23 September 2024)
- Naqash Media Club secured 4th Position in Indus consortium 2024 (Youth Film Festival) Beach Luxury Hotel, Karachi all Pakistan Photography Competition September 20, 2024
- Naqash Media Club secured 1st position in (Architecture Photography) in Lyallpur Art and Literary Festival Faisalabad (UAF) (February 18-19, 2025).
- Naqash Media Club secured 1st position in (Picture Story) in Lyallpur Art and Literary Festival Faisalabad (UAF) (February 18-19, 2025).
- Naqash Media Club secured 2nd position in (Thematic Photography) in Lyallpur Art and Literary Festival Faisalabad (UAF) (February 18-19, 2025).
- Naqash Media Club secured 2nd position in (On-spot Photography) in Lyallpur Art and Literary Festival Faisalabad (UAF) (February 18-19, 2025).
- Naqash Media Club secured 1st position in (Product Photography) in 5th International Student Convention & Expo, GC University, Faisalabad (February 24, 2025).
- Naqash Media Club secured 1st position in (Architecture Photography) in 5th International Student Convention & Expo, GC University, Faisalabad (February 24, 2025).
- Naqash Media Club secured 2nd position in (Creative Portrait Photography) in 5th International Student Convention & Expo, GC University, Faisalabad (February 24, 2025).
- Naqash Media Club secured 3rd position in (Product Photography) in 5th International Student Convention & Expo, GC University, Faisalabad (February 24, 2025).

11.2.7. Activities of Rover Scouts Unit, MNS University of Agriculture Multan 2024-25

- The Rover Scouts Unit, UAM, conducted a hands-on Emergency Response & Evacuation training workshop (May 23, 2025)
- Rover Scouts worked as volunteers in Mango Festival 2024.

11.3. Career Development Center/Placement Bureau

The Career Development Center/Placement Bureau was established with the aim of providing guidance / counseling to the students of MNS University of Agriculture, Multan, for career improvement and placement after the completion of their professional degrees. There are two members of CDC/PB i.e., Dr. M. Ishtiaq, Assistant Professor, Entomology (Focal Person), and Mr. Usman Jamshaid, Lecturer, Soil and Environmental Sciences (Member). Two students are working on a per hour basis, which helps them in office management, data collection, to organize seminars, webinars, and recruitment drives. Details of each activity performed during the years 2024-25 are given herewith.



11.3.1. Students Counseling and Information Sources

Students are being provided services through personal contacts and our online resources. They could call, email cdc@mnsuam.edu.pk, or visit our online resources to get help for different kinds of issues. They could also visit our Facebook page: "Career Development Center, MNS University of Agriculture, Multan". The link of Facebook page is <https://www.facebook.com/MNSUAM.CDC>. More than 3500 people are connected through social media, including students, faculty members, and employers. It has a great effect on disseminating information among the students, which includes scholarship information ads, Job postings, motivational posts, information regarding seminars, trainings, and important events to be held at MNSUAM. We received a good and quick response from this page. Students are provided guidance for the following:

1. Major selection /career goals
2. Searching of jobs
3. Interviewing
4. Writing of resumes
5. Online application to various posts at NTS, PPSC, FPSC, etc.
6. Scholarship advice: Searching Foreign scholarships and applying
7. Required Contact information of any company or institute for applying
8. Information regarding government departments according to their subject

11.3.2. Alumni Data Collection and Maintenance of Alumni Association

Alumni play an important role in future academia-industry linkages. They could help to achieve our goals. They could help us in a better way than others. Keeping in view the importance of Alumni, A group of alumni students has been maintained by CDC/PB using social media such as WhatsApp, Gmail, and Facebook. We have received bio-data forms from all graduates of all degree programs passed out during each year. A database of the alumni students has been established with contact numbers and postal addresses. WhatsApp groups for each session have been maintained for the dissemination of information to the alumni graduates. Alumni students were invited to annual dinners arranged by each department to strengthen relationships as well.

11.3.3. Placement of Graduates of MNSUAM

Graduates of MNS University of Agriculture Multan are being placed in different organizations through the following activities.

11.3.3.1. Internship placement for final year students

Students in professional degree programs require real life experiences through market exposure, which is only possible through internships in professional organizations. In order to equip the students with professional experiences, internships play a vital role. This year, we were able to find internships for final year students of B.Sc. (Hons.) Agriculture at private sector professional organizations through internship committee. Dr. M. Ishtiaq, Focal Person of CDC/PB was in charge of the committee. One faculty member was nominated by the Chairman of each department as the focal person of the respective department for internship placements. The main objective of the committee was to find internships in well reputed private organizations, institutes, and progressive private farms, and the second option was to find paid internships. Different organizations were contacted for internship offers. Almost 70 % of the students were offered paid internships by Agro industries, Progressive Farms, Banks, and various organizations.

11.3.3.2. Summer Internship

Undergraduate students are also encouraged to work during summer vacations. The Career Development Center/ Placement Bureau issued letters to the students willing to serve in any organization of their own choice. We facilitated different organizations to conduct interviews with students for the selection of suitable candidates for summer internships and project based offers.



11.3.3.3. On Campus Orientation Seminars / Sessions and Recruitment Drives by industrial representatives of different organizations for job opportunities

Career Development Center/Placement Bureau helps University graduates find better job opportunities at different Companies / institutes, etc. Our initial survey indicated that the majority of our graduates wanted to continue their studies. But for those, who want to start their career, the following efforts have been made for the placement of our graduates during this year 2024-25. Different job and scholarship advertisements are being posted using the Alumni Network and notice board.

We helped the graduates find jobs at different Companies / Organizations and arranged their interviews through personal contacts, social media, mobile calls, SMS, and Emails. Fifteen awareness seminars and recruitment drives were conducted by different industries and facilitated by CDC/PB MSNUAM during this year. A number of students have joined and started their careers in these organizations.

A number of organizations, including progressive farmers across Pakistan, contacted us for assistance in the recruitment process, and our placement office assisted in the collection of CV's of graduates and encouraged graduates to apply for recruitment. Not only our graduates but also graduates from other Universities were getting benefits from our office.

11.3.3.4. Recruitment Drive of PepsiCo Annual Agro Internship Program for the Placement of MNSUAM Graduates on 11-09-2024

A recruitment drive was organized by Career Development Center and Placement Bureau on 11 September 2024 at 10:30 am in which team of PepsiCo International Pvt. Ltd. visited Muhammad Nawaz Shareef University of Agriculture, Multan. The aim of the event was to provide placement opportunities for the talented graduates of MNSUAM. The recruitment drive witnessed enthusiastic participation from MNSUAM graduates, eager to join PepsiCo's esteemed internship program. The event commenced with an opening address by Dr. Muhammad Ishtiaq the Focal Person of Career Development Center and Placement Bureau, who emphasized the importance of industry-academia linkages and how such collaborations are pivotal for the professional growth of students. Esteemed representatives from PepsiCo shared valuable tips on professional development and interview preparation. The session provided graduates with a clear understanding of the career opportunities available within the agro-sector, highlighting PepsiCo's commitment to groom young talent. Representatives from PepsiCo delivered insightful presentations on the company's mission, the scope of the internship program, and the career prospects within the agro-sector. Event was comprised of following three sessions (1) Career Counselling Session, (2) Online test through Kahoot App, (3) Physical Interviews on Campus. Prof. Dr. Shafqat Saeed, Dean Faculty of Agriculture and Environmental Sciences MNSUAM, extended gratitude to PepsiCo for their continued support and for providing this valuable opportunity to the graduates. "This recruitment drive is an indication to our commitment to bridging the gap between academic learning and industrial requirements. We are proud to see our students being recognized by leading organizations like PepsiCo," he stated. Umer Sharif Ph.D. Scholar (Member of CDC/PB), Dr. Mirza Abdul Qayyum Associate Professor, Hasan Taha Ph.D. Scholar, Ahmad Ibrahim Jalali Research Associate and a large number of Agriculture graduates were present on this occasion.

11.3.3.5. Awareness seminar about recruitment of IT, CS, Engineering graduates in PAF On 12-09-2024

Career Development Center and Placement Bureau, Muhammad Nawaz Shareef Agricultural University Multan organized an awareness seminar in which Squadron Leader Pakistan Air Force and his team came to Muhammad Nawaz Shareef Agricultural University Multan. Dr. Muhammad Ishtiaq, Focal Person of Career Development Center and Placement Bureau during his talk focused on warm greetings and introductions, Purpose of the Seminar, Importance of the of the Seminar Agenda, Encouragement to engage and Ask Questions, Emphasis on the Values of the PAF and transition to the Seminar (introduction of the next speaker). Squadron Leader Pak Air Force during his talk guides the students about Combat Support Course. In which he discussed the entire selection process, necessary documents, education and other basic requirements, selection process and key stages of evaluation, training program and skills development, Career opportunities within the PAF, guidance for successfully passing the recruitment process. He informed the students that there are many vacant seats in various branches in Pakistan Air Force where students should apply. It is open to apply for seats in several branches such as



Education (Edu), Admin and Special Duty (A&SD), Accounts (Acct), Logistics and Information Technology branch (IT). This was followed by a special question and answer session with the students. In which the students actively participated with great interest.

Prof. Dr. Salman Qadri, Director Institute of Computing in his talk reinforce the value of dedication, discipline, and a commitment to service that defines PAF personnel, remind attendees of the key messages shared by Squadron Leader, Share resources where attendees can learn more (Such as the PAF website, social media channels, or contact information) for further inquiries. Prof. Dr. Shafqat Saeed, Dean, Faculty of Agriculture and Environmental Sciences in his talk express gratitude for special guests, speakers, and organizers for their contributions to the success of the event. On this occasion, Israr Hussain Lecturer Institute of Computing, Associate Professor Dr. Mirza Abdul Qayyum, Umer Sharif Ph.D. Scholar (Member Career Development Center and Placement Bureau), Hasan Taha Ph.D. Scholar, Ahmad Ibrahim Jalali Research Associate and Junaid Khan Daha Scientific Officer were also present.

11.3.3.6. Recruitment drive of Evyol Group on 16-01-2025

A recruitment drive was organized by Career Development Center and Placement Bureau on 16 January 2025 at 10:00 am in which HR Team Leader of Evyol Group and his team visited Muhammad Nawaz Shareef University of Agriculture, Multan. In this, the Focal Person of Career Development Center and Placement Bureau, Dr. Muhammad Ishtiaq, while addressing the agricultural graduates, highlighted the importance of the recruitment drive organized by CDC/PB. He talked the agricultural graduates that we keep organizing various programs in which banks, companies, agricultural farms visit the university and offer jobs to agricultural graduates. Along with he guided about job interview skills, dressing code, time management. Bilal Ahmed informed about the selection of Trainee Area Leader in Evyol Group of Companies. Later the written examination was conducted in which a large number of Agri. graduates participated. Umer Sharif Ph.D. Scholar, Muhammad Siddique Assistant Director Rajanpur, Umair Faheem Research Officer Government of Punjab and a large number of Agri. graduates were present on this occasion.

11.3.3.7. Recruitment drive of Food Security and Agriculture Centre of Excellence on 29-05-2025 & 13-06-2025

The FACE (Food Security & Agriculture Center of Excellence) is a not-for-profit entity working to achieve food security through yield increase and climate-smart agriculture. FACE, in collaboration with Career Development Center and Placement Bureau of MNS University of Agriculture, Multan (MNS-UAM), conducted an Internship Drive for final-year students and fresh graduates of Plant Protection, specializing in Entomology and Plant Pathology. The drive was aimed to identify and induct potential candidates into paid internship positions, contributing toward industry-academia integration and capacity building in Pakistan's agricultural sector. A total of 83 students and graduates appeared in the online recruitment test, which was held under the supervision of the university's invigilation team comprising Dr. Muhammad Ishtiaq, Dr. Nadir Naqash, Mr. Umer Sharif, and Ms. Sheza Farooq. The FACE team remained online throughout the testing process to ensure transparency and provide real-time coordination. Following the assessment, 37 candidates were shortlisted for interviews. The interviews were conducted on 13th June 2025 by the FACE-FFC panel, including: Mr. Muhammad Ahmad, Program Coordinator, FACE; Mr. Abdul Shakoore, Program Manager, FACE; Mr. M. Kashif Nazir, Secretary, FACE. The interview panel assessed candidates not only on academic grounds but also on their interpersonal skills, adaptability, and understanding of modern agricultural practices. Such recruitment processes signify a transformative shift in aligning student capabilities with evolving field-level challenges. During their visit, the FACE team held a meeting with Prof. Dr. Irfan Ahmad Baig, Dean, Faculty of Social Sciences and Humanities. The discussion centered around internship program structure, field placement feedback, and ways to enhance the practical readiness of graduates. Dr. Baig shared valuable insights from past internship cycles and recommended improvements to further enrich the experience. In particular, Mr. Muhammad Ahmad proposed initiating a pre-field training module at MNS-UAM to better prepare selected interns before deployment to real-world scenarios. Later, the



delegation called on Prof. Dr. Ishtiaq Ahmad Rajwana, Vice Chancellor of MNS-UAM. Dr. Rajwana appreciated FACE–FFC’s efforts in strengthening academia–industry linkages, emphasizing that constructive feedback from industry partners is essential for developing job-ready graduates. He reiterated the university’s commitment to producing skilled professionals who can contribute meaningfully to Pakistan’s food security and agricultural sustainability goals. The Vice Chancellor also acknowledged FACE’s role in promoting extension-driven collaboration, which benefits not only young professionals but also farming communities through shared knowledge and innovation. The success of such initiatives highlights the need for strong institutional partnerships where industry acts as a mentor, and academia as a nurturer of potential. Empowering youth with practical exposure, professional mentoring, and hands-on learning is the cornerstone of national progress in agriculture. Programs like FACE are a beacon, bridging the gap between classroom knowledge and field realities, thus ensuring a more resilient and future-ready agricultural workforce.

Table 11.1. List of Activities of CDC/PB involving industry for awareness sessions and Recruitment Drives during 2024-25

Sr. No.	Name of Organization	Events	Date
01	PepsiCo Pvt. Ltd.	Career Counseling Session and Recruitment Drive	11-09-2024
02	Pakistan Air Force	Awareness seminar about various jobs available in PAF	12-09-2024
03	Tara Group Pvt. Ltd	Career Counseling Session Recruitment Drive	12-11-2024
04	Evyol Group	Career Counseling Session Recruitment drive	16-01-2025
05	Tara Group Pvt. Ltd.	Recruitment Drive	14.05.2025
06	Food Security and Agriculture Centre of Excellence	Recruitment drive	29-05-2025 & 13-06-2025
07	CDC/PB MNSUAM	Major Selection Seminar for 4 th Semester Students of BSc. (Hons.) Agriculture	04-06-2025
08	Food Security and Agriculture Centre of Excellence	Two days Internees Training Session	26-27-06.2025
09	Saanjh Group Pvt. Ltd.	Recruitment	16.04.2025
10	Evyol Group	Career Counselling Session Recruitment drive	25-04-2025
11	Khushhali Microfinance Bank Ltd.	Recruitment Drive	25.04.2025



12	Corteva Pvt Ltd.	Registration of graduates for paid internship	12.06.2025
13	Inter-Services Public Relationship	Registration of students for Summer Internship (Training)	13.06.2025

11.4. Alumni Achievements and Registration: For Alumni Directory

The growing success of MNSUAM graduates is a source of pride for the university. Our alumni have made remarkable strides in their respective fields, securing competitive positions in agricultural research, extension services, academia, agribusiness companies, and international development organizations. Through the ongoing alumni registration campaign, more graduates are being added to the official alumni database, allowing the university to strengthen engagement, promote networking opportunities, and recognize outstanding accomplishments. This initiative not only showcases the professional footprint of MNSUAM alumni but also serves as an inspiration for current students and stakeholders.

The data for this directory has been collected through an online Google Form circulated among graduates. Customized Alumni Cards with unique reference numbers have been designed and shared on social media platforms to highlight the achievements of our graduates and their professional contributions to various organizations in both the public and private sectors. A list of 104 selected graduates is presented here, including their current designations, affiliated organizations, and academic disciplines. Many of these alumni are serving in government departments, educational institutes, and industries, holding diverse positions that reflect their expertise and the quality education imparted at MNSUAM. Our female graduates are also serving in various disciplines both in public and private organizations like Times Institute Consultant, FMC Pvt. Ltd. in sales a unique feature usually female don't like sales department, Research organizations, CAB International, JK Farms etc. A lot of students are also moving overseas for studies / employment, in recent years. An increasing trend observed, countries of destination were China, Middle East (Gulf countries), Türkiye, Italy, UK, and Australia.

Table 11.2. List of Selected Alumni of MNSUAM Serving in Various Organizations – For Alumni Directory

Sr. No.	Name	Institute / Department	Degree	Organization	Designation
1	Muhammad Asif	Department of Agronomy	PhD Agronomy - 2025	Punjab Agriculture Ext Department	Assistant Director Agriculture Ext.
2	Dr Shahzad A. Junaid	Department of Agronomy	PhD Agronomy - 2025	Punjab Agriculture Department	Assistant Director Agriculture Extension
3	Dr Abdur Rauf	Institute of Plant Protection	Ph.D Entomology	Pest Warning & QCP	Deputy Director Agriculture
4	Dr Muhammad Afzal	Institute of Plant Protection	Ph.D Entomology 2024	Pest Warning & QCP	Deputy Director Agriculture
5	Iqra Ejaz	Agriculture and Resource Economics	B.Sc. (Hons) 2023 & M.Sc. (Hons) 2025	Times Consultant Pvt. Ltd	Admission Officer

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6	Dr. Sadia Hakeem	Institute of Plant Breeding and Biotechnology	B.Sc./M.Sc. (Hons) & Ph.D PBG 2025	Cotton Research Institute, Multan	Scientific Officer
7	Dr. Mahreen Hanif	Institute of Plant Protection	B.Sc./M.Sc. (Hons) & Ph.D Entomology 2025	AiGROS Tech	IPM Specialist
8	Zarmeena Khan	Agronomy	B.Sc. (Hons) 2017 & M.Sc. (Hons) 2019	FMC	Territory Sales Manager
9	Maryam Hayat	Agronomy	B.Sc. (Hons) 2021 & M.Sc. (Hons) 2023	Arid Zone Research Institute Bahawalpur	Assistant Scientific Officer
10	Ahsan Kamal	Department of Horticulture	M.Sc. (Hons.) Horticulture– 2020 & B.Sc. (Hons.) Agriculture (Horticulture)- 2018	DJC Ali Akbar Group	Territory Manager
11	Choudary Ihtasham Ali	Department of Agribusiness and Applied Economics	B.Sc. (Hons.) Agriculture (Agricultural & Resource Economics) - 2019 & M.Sc. (Hons.) Agriculture Economics - 2021	Price Control & Commodities Management Department, Govt. of Punjab	Agricultural Officer (Economics & Marketing), Muzaffargarh
12	Muhammad Hamza Khalil	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2022 & M.Sc. (Hons.) Agronomy - 2024	Aziz Group	Area manager

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13	Hamza Raheem	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2021 & M.Sc. (Hons.) Agronomy -2023	National Agricultural Research Center (NARC)	Assistant Scientific Officer
14	Hafiz Abdul Qudoos	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2020 & M.Sc. (Hons.) Agronomy -2022	Bank Alfalah Limited	Credit Analyst- Agri
15	Muhammad Fahad Javed	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2020 & M.Sc. (Hons.) Agronomy -2022	FFC (Fauji Fertilizer Company Limited)	Centre Incharge
16	Zuhaib Khalid	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2020 & M.Sc. (Hons.) Agronomy -2022	JK Sugar Mills Private Limited, Unit-1, Mian Channu	Assistant Cane Manager
17	Mahar Zahid Nawaz	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2018 & M.Sc. (Hons.) Agronomy -2020	Target- Ali Akbar Group	Area Manager- Mailsi
18	Atif Riaz	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2018 & M.Sc. (Hons.) Agronomy - 2020	Suncrop Group Chowk Sarwar Shaheed	Area Sales Manager
19	Ahmed Muneer	Department of Food science and Technology	B.Sc. (Hons.) Agriculture (Food Science and	Popular Foods Multan	Quality Assurance Executive

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			Technology) - 2018 & M.Sc. (Hons.) Food Science and Technology - 2023		
20	Waqas Hayder	Department of Food science and Technology	M.Sc. (Hons.) Food Science and Technology – 2020	Butt Sweets and Bakers Lahore	Production and Quality Head
21	Muhammad Talha Rasheed	Department of Soil and environmental sciences	M.Sc. (Hons.) Soil and environmental sciences -2019	Arysta life sciences Pakistan pvt LTD	Senior Territory Manager Multan
22	Sardar Hamza Maan	Institute of Computing	MS Computer Science - 2024	Maan Institute Multan	CEO
23	Zaid Sarfraz	Institute of Computing	BS Computer Science - 2019 & MS Computer Science - 2021	MNS University of Engineering and Technology, Multan	Lecturer
24	Rao Muzamil	Institute of Plant Breeding and Biotechnology	M.Sc. (Hons.) PBG – 2023 B.Sc. (Hons.) Agriculture (PBG) – 2021	Commander Group	Assistant import Manager (R&D)
25	Muhammad Shan	Institute of Plant Breeding and Biotechnology	M.Sc. (Hons.) Plant Breeding & Genetics - 2020	Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao China	Overseas Student
26	Muhammad Zeeshan Shahid	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2022 & M.Sc. (Hons.) Entomology - 2024	Bank of Punjab	Relationship Manager

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27	Saleem Riaz	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021 & M.Sc. (Hons.) Entomology - 2023	Bank Alhabib Pvt. Ltd.	Agriculture finance officer
28	Mr. Sanaullah	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2022	WWF-PAKISTAN	Producer unit manager
29	Mohammad Ameer Hamza	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2020 & M.Sc. (Hons.) Entomology - 2022	Kanzo Ag (Evyol Group)	Area Leader
30	Mr. Sami Ullah Sipra	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2020 & M.Sc. (Hons.) Entomology - 2022	H.W Enterprise SMC private limited Islamabad Multan Pakistan	Founder/ Master trainer Apiculture South Punjab Pakistan
31	Muhammad Kamran Ijaz	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2020 & M.Sc. (Hons.) Entomology - 2022	Bank Al Habib	Senior Agriculture Finance Officer
32	Sufyan Raza	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2020 & M.Sc. (Hons.) Plant Pathology - 2022	Solex Chemicals Pvt Ltd	Field Coordinator (Corporate Office)
33	Muhammad Wajid	Institute of Plant Protection	B.Sc. (Hons.) Agriculture	Agriculture Department	Agriculture Officer (Ext.)

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			(Entomology) - 2019 & M.Sc. (Hons.) Entomology - 2021	Govt. of the Punjab	
34	Abou Bakar Siddique	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2019 & M.Sc. (Hons.) Entomology - 2021	Pakistan Agricultural Research council	Scientific Officer
35	Muhammad Aqeed Mehdi	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2021	Department of Plant Protection, Ministry of national food security and research	Entomologist BPS-17
36	Rumail Shahid	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2021	Agriculture Extension and Adaptive Research Punjab	Cotton Inspector Jahanian
37	Shahid Iqbal	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2019 & M.Sc. (Hons.) Entomology - 2021	Chinese Academy of Agriculture Sciences	International student
38	Muhammad Arslan Rafique	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2020	AR Urban Pest Solutions	CEO
39	Muhammad Nadeem	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2018 & M.Sc. (Hons.) Entomology - 2020	Punjab Agriculture Department	Agriculture Officer

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40	Zulqarnain Abbas	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2018 & M.Sc. (Hons.) Plant Pathology - 2020	Zhengzhou University, Henan, China	Rsearch associate at Henan Agriculture Academy
41	Muhammad Ramzan	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2018 & M.Sc. (Hons.) Entomology - 2020	Anhui Normal Agricultural University, China/Chinese Academy of Sciences, China	Postdoctoral Researcher
42	Imtiaz Hussain Malana	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2019	RYK Sugar Mills Liaquat Pur	CDO (Cane Development Officer)
43	Muhammad Nadeem Khan	Institute of Plant Protection	M.Sc. (Hons.) Entomology – 2019	Pest Warning & Quality Control of Pesticides	Director Agriculture
44	Mohsin Qayyum	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2017 & M.Sc. (Hons.) Entomology - 2019	Sunway Agrochemicals Multan	Import & R&D Manager
45	Muhammad Nawab	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2019	FMC united pvt ltd	Territory manager
46	Muhammad Nasir	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2019	Pest Warning & Quality Control of Pesticides	Deputy Director Agriculture (Plant Protection)
47	Rana Adnan Babar	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2019	National Highways and Motorway Police	Sub Inspector
48	Hamza Waheed	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2019	Sapphire Farm Services Pvt Ltd.	Sales Manager South

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49	M Abdul Majid	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2018	Engro Fertilizers Ltd	TSO
50	Ghulam Murtaza	Institute of Plant Protection	M.Sc. (Hons.) Entomology - 2018	University of Chinese Academy of Sciences	Postdoctoral researcher
51	Qasid Ali	Department of Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)– 2023	University of Hertfordshire, UK	International student
52	Abdul Malik	Department of Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)- 2023	Saver enterprise (Greater Group)	Area Manager
53	Mian Muhammad Ahmed	Department of Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)- 2021	Tarim University, China	Overseas PhD Biology
54	Muhammad Asim	Department of Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)- 2021	Huazhong Agricultural University, Wuhan, China	International student
55	ZEESHAN AHMED	Department of Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)-	Lucky core industry	Area Manger Multan
56	Ali Raza	Department of Agribusiness and Applied Economics	BBA AgriBusiness - 2023	Kisan Care (Topsun Group)	Intelligent Sales officer
57	Usman Ali	Department of Agribusiness and Applied Economics	B.Sc. (Hons.) Agriculture (Agricultural & Resource Economics) - 2021	Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan	Teaching Assistant
58	Anss Anwar	Department of Agribusiness and Applied	B.Sc. (Hons.) Agriculture (Agricultural &	The Bank of Punjab (BOP)	General Banking Officer - Jahanian

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		Economics	Resource Economics) - 2021		
59	Muhammad Hammad Waseem	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2024	Government of Punjab Agriculture Extension Department	Internee Agriculture Extension officer
60	Sami Ullah Shah	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2024	Thal Industries Corporation limited (Layyah Sugar Mills Layyah)	Agriculture Officer
61	Muhammad Shoaib Faraz Rao	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2021	Target Ali Akbar group	Territory Manager jahanian
62	Muhammad Shafqat	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2021	Bank Al Habib Limited	Agriculture finance officer
63	Safdar Ali	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) – 2018	Bayer Pakistan Private Limited	Territory Sales Manager
64	Muhammad Furqan Qamar	Department of Agronomy	B.Sc. (Hons.) Agriculture (Agronomy) - 2016	Swat Agro Chemcals, Altiga Agri Solutions	Deputy Manager Technical Training MTN
65	Atif Arshad	Department of Food science and Technology	B.Sc. (Hons.) Agriculture (Food science and Technology) - 2022	Anhui Agricultural University, China	Overseas Masters Student
66	Sohail Nawaz	Department of Food science and Technology	B.Sc. (Hons.) Agriculture (Food science and Technology) - 2021	Dawn Food Corporation (Pvt) Ltd.	Team lead Production

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67	Muhammad Arbaz Azam	Department of Food science and Technology	B.Sc. (Hons.) Agriculture (Food science and Technology) - 2021	Seara Mena	Quality Control Technician
68	Haider Hayat	Department of Soil and environmental sciences	B.Sc. (Hons.) Agriculture (Soil and environmental sciences) - 2024	Jaffer Brother's Pvt Ltd	Territory Sale Officer
69	Muhammad Kamran	Department of Soil and environmental sciences	B.Sc. (Hons.) Agriculture (Soil and environmental science) - 2022	Combagro Evyol Group	Area Leader DG Khan
70	M. Safdar Iqbal	Department of Soil and environmental sciences	B.Sc. (Hons.) Agriculture (Soil and environmental sciences) - 2021	Agrilift Ai	Agriculture officer
71	Muhammad Zahid Iqbal	Department of Soil and environmental sciences	B.Sc. (Hons.) Agriculture (Soil and environmental science) - 2021	Skydream delivery services	Operations Manager
72	Muhammad Waqas	Department of Soil and environmental sciences	B.Sc. (Hons.) Agriculture (Soil and environmental sciences) - 2018	Zarai Tarqati Bank Ltd. (ZTBL)	Mobile Credit Officer OG-II
73	WASEEM ABBAS	Institute of Computing	BS Computer Science - 2019	Aspire Group Of Colleges Multan Campus	System Network Administrator
74	Rana Arbab Haider	Institute of Computing	BS Computer Science - 2019	National University of Modern Languages, Islamabad. (Multan Campus)	Lecturer (BPS-18) Department of Computer Science

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75	Rizwan Waqar	Institute of Computing	BS Computer Science - 2019	Beaconhouse	O/A-Level Computer Science Teacher For Cambridge and Pearson Edexcel Board
76	saqib imran	Institute of Computing	BS Computer Science - 2018	Air University Multan Campus	Lecturer(CS)
77	Hammad Ahmad	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Plant Breeding & Genetics) - 2024	Gebze Technical University, Türkiye	Overseas M.Sc. Scholar
78	Arbab Akram	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Plant Breeding & Genetics) - 2024	Evyol Group	Area Leader
79	Yasir Hameed	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Plant Breeding & Genetics) - 2022	Tara crop sciences	Area manager Liaquat pur
80	Mamar Laeeq Zia	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Plant Breeding & Genetics) - 2022	South Central Minzu University, Wuhan, China	Overseas Master's student
81	Mian Ameer Hamza	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Plant Breeding & Genetics) – 2021	Tara Group Pakistan	Manager Quality Control Seed and Supply Chain
82	Muhammad kamran younas	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Seed science and technology) - 2021	E-Commerce, Creed Leader	Freelance Marketing Consultant
83	Muhammad Ali Qureshi	Institute of Plant Breeding and Biotechnology	B.Sc. (Hons.) Agriculture (Seed Science & Technology) - 2018	Annex chemicals	RSM

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84	Ibrar Ahmad	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2024	Agriculture Extension Department	Internee Agriculture Officer
85	Frasat Raza	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2022	Sungro Pvt. Ltd.	Territory Head Kabirwala
86	Hassan Raza	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2022	Ag-pharma Evyol Group	Area Leader (Area Sales Manager)
87	Muhammad Qaiser Sharif	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2022	Manuchar Pakistan Pvt Limited.	Sales Officer
88	Qalb Abbas	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2022	Yaqoob Group of Companies	Technical Development Officer
89	Rashid Ali	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	Special Branch Punjab Police	Intelligence Officer
90	Muhammad Usman Khan	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	Hyland International	Technical Manager
91	Muhammad Kashif	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	HAMSONS GROUP OF COMPANIES	Assistant Human Resource Manager
92	Muhammad Asif	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) – 2021	Sayban international	Area Manager
93	Muhammad Umair Shan	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) -	JK Sugar Mills Kacha Khuh	cane procurement and

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			2021		development officer
94	Muhammad Tayyab	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) – 2021	Sona Centre	Field Assistant
95	Malik Junaid Akram	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	The Edge Group	Research and Development Head
96	Muhammad Azhar Javaid	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	Yaqoob Group	Technical Development Officer
97	Rao Muhammad Bilal	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	Ravi Spray Center	Self Employee Owner
98	Muhammad Kashif	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2021	Pesticide Business Shop	Amir Agro Services -Jalal Pur Pirwala
99	Shahmeer Sajid	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	Yaqoob group of companies	Technical development officer
100	Muhammad Shahbaz	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2021	HBL Zarai Services Limited	Officer Agri Services (OAS)
101	Muhammad Mujahid	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2020	Combagro Eyyol group	Area Leader
102	Fahad Aziz Khan	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2020	Hexon Group	Research and Development officer

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103	Naveed Raza	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Plant Pathology) - 2020	Commander Group Pvt.Ltd	Area Sales Manager
104	Nasir Nizam	Institute of Plant Protection	B.Sc. (Hons.) Agriculture (Entomology) - 2019	Hamsons Group of Companies	R&D Manager
105	Saba Khan	Institute of Plant Protection	B.Sc. (Hons.) / M.Sc. (Hons) Agriculture (Entomology) – 2018 & 2020	CAB International	Project Officer Monitoring and Evaluation
106	Zainab Fatima	Horticulture	B.Sc. (Hons.) Agriculture (Horticulture)- 2025	JK Farms	Assistant



Finance





FINANCE

12.1. Financial Year at a Glance

Particulars	Approved Budget 2024-25	Revised Budget 2024-25 Million PKR	Actuals 2024-25
RECEIPTS			
Opening Balance	14.775	26.295	26.295
Govt. Grants	345.284	446.680	446.680
University's Own Sources (Self-Generated Income)	714.685	624.173	624.173
Donation	20.000	0.500	0.500
Total Receipts	1094.744	1097.648	1097.648
EXPENDITURES			
Salary Expenditures	678.137	617.885	617.885
Non Salary Expenditures	483.138	397.539	397.539
Total Expenditures	1161.275	1015.424	1015.424
Surplus/Deficit	(66.531)	82.224	82.224
Development Budget	314.686	350.278	350.278
Recurring Budget	1161.275	1015.424	1015.424
Self-Generated Income	714.685	624.173	624.173
In PKR			
Trend of Per Student Spending (Salary Expenses Basis)	97,574	102,282	102,282
Trend of Per Student Spending (Non-Salary Expenses Basis)	69,516	65,807	65,807



Universities Governance





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 42 meetings of Syndicate had been held, out of which, one held in 2024-25 are given below:

Sr. No.	Meeting	Date
1	42 nd	14.12.2024

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.

13.3. Finance and Planning Committee (F&PC)

The Finance & Planning Committee prepares the annual statement of accounts, proposes annual budget estimates, makes recommendations to the syndicate, periodically reviews the financial position of the university, and advises the syndicate on all matters related to finance, investment, and accounts of the university.

13.4. Board of Faculties

Board of Faculty coordinates the teaching and research work in the subjects assigned to the faculty and scrutinizes the recommendations of a Board of Studies comprising the faculty with regard to the appointment of paper-setters and examiners for graduate and postgraduate examinations and forwards the panels of suitable paper-setters and examiners for each examination to the Vice Chancellor.

Sr. No.	Board of Faculties	Meeting Date
1	13 th Meeting of Board of FSS&H	02.07.2024
2	14 th Meeting of Board of FSS&H	20.02.2025
3	1 st Meeting of Faculty Board of IoC	29.07.2024
4	2 nd Meeting of Faculty Board of IoC	15.04.2025



13.5. 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 2023-24:

Sr. No.	BASR	Meeting Date
1	25 th Meeting of BASR	12.12.2024
2	26 th Meeting of BASR	18.04.2025

13.6. 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



Office of the Resource Generation/Development





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 always tries to make quality education accessible to all students in Pakistan, including those from lower and middle income households. Therefore, Students Financial Aid Office (SFAO) was established in 2015 at MNS University of Agriculture, Multan with the aim to commit the success of our students by providing financial aid and advising services that support student recruitment, retention, and timely degree completion, and ensures that a world-class education remains within reach for all eligible students who need financial assistance to achieve their educational goals.

14.2. Miscellaneous Facilities

1. Tuition Fee Concession (50%) to 10% of the students in the class by Dean Faculty.
2. Facility to deposit dues in installments for financially constrained students.
3. A number of students are working on various research projects sponsored by HEC/ Government Departments/ organizations (national and international) to perform work in exchange for money for their education
4. Hiring of students on hourly basis (Work-related learning experience for students who wish to develop hands-on work experience in a certain occupational field).

14.3. Under and Postgraduate Scholarships Awarded During (2024-2025)

Scholarship Type	No. of Awardees	Amount (Million PKR)
Merit Scholarship	489	3.00
Ehsaas Scholarship (BUSP)	43	4.25
HEC Need Based	98	9.28
Honhaar Scholarship	756	50.61
PEEF	52	1.9
PEEF Master Level	33	3.00
PEEF (LAD)	122	6.1



KMRB	2	0.13
Usher Scholarship	137	4.05
Bait-UI-Mal	24	0.28
Rasheed Memorial Scholarship	5	0.28
Sona Welfare Scholarship	2	0.04
Goumani Foundation	23	0.8
Diya Foundation	3	0.05
BEEF	47	3.95
TOTAL	1836	87.72

14.4. Planning and Development Office

The P&D Office of MNS University of Agriculture, Multan, is playing its role in resource generation for the university's development. Annual Development Programs worth Rs. 2215.00 Million have been successfully completed during their approved Gestation Periods under the auspices of the Agriculture Department, Govt. of Punjab. The project activities have been completed with 99.9% utilization, including physical infrastructure, procurement of lab equipment, furniture and fixtures, transport, generators, farm development, construction work, and allied activities. Specifically, a 9 Km underground pipeline from the bed of the River Chenab for cultivation of 500 acres of land with fresh irrigation water at Jalalpur Pir Wala Research Farm of the University. The training Hall, Input and Produce Stores, Animal and Implement sheds, and other allied facilities have also been completed under the ADP Scheme. Another flagship ADP project (Pilot Project) has been completed with a cost of Rs. 200 million, a gestation period of 36 months, and the objective of training 376 interns, onboarding the contact farmers, and Monitoring through the GEO Tagging Application. A feasibility study for the establishment of a sub-campus of MNS-University of Agriculture Multan at Khanewal has also been completed for submission of the project for approval.

The details of following on-going projects and being submitted for approval at different Provincial and Federal agencies;

- ADP Project of Rs. 472.920 million for National Crop Genomics and Speed Centre for Agriculture Sustainability was approved with an execution period of 60 months (2021-22 to 2025-26). The four years of the project have been successfully completed with 93% utilization as per the PC-I provision.
- ADP Scheme titled “Strengthening of MNS-University of Agriculture Multan” of Rs. 646.600 million was submitted to Agriculture Department for approval with a Gestation Period of 48 months (2022-23 to 2025-26). The agriculture department allocated the funds of Rs. 205.000 million during FY 2025-26 for the said project. The project proposal includes a female hostel for 250 students, a sports complex for indoor games, two computer labs, and three student buses. The three years of the project has been successfully completed with 100% utilization.
- A development project of Rs. 1356.378 million has also been approved for FY 2023-24 Funds amounting to Rs. 200 million have been allocated for current financial year with implementation period of 36 months by Higher Education Commission (HEC) Islamabad. The project proposal includes the Academic and Lecture Theater Block (66700 sq. ft.) for 2000 students., Central Library (FF) (10500 Sft), Boys Hostel (62000 Sft) with Capacity of 350



students, Girls hostel (62000 sq. ft.) with capacity of 350 students, Multipurpose Hall (26000 sq. ft.) with capacity of 700 students, Faculty Hostel (10300 sq. ft.) for 19 faculty members, Transportation facility (02 Student Buses and 01 Coaster) for 180 students daily, External Development & landscaping, Lab equipment (331 Items) for the newly established faculty of veterinary & Animal science and faculty of Agri. & Bio system Engineering, Furniture & fixture, ICT equipment (41 Items) and allied external services. The two years of the project have been successfully completed with 100 % utilization against releases.

Civil work Contract for Academic & Lecture Theater Block (Group-A) and Multipurpose Hall (Group-B) has been awarded. The foundation work has been started on both facilities. Hopefully, the facilities will be operational during the FY 2025-26.



Directorate External Linkages



Directorate External Linkages



Directorate External Linkages





DIRECTORATE EXTERNAL LINKAGES

The evolving mandate of universities necessitates enhanced connectivity and robust linkages with local, national, and international communities. Consequently, the Directorate of External Linkages was established at MNS University of Agriculture, Multan in 2016 under the supports of the Higher Education Commission of Pakistan.

MNS University of Agriculture, Multan is committed to strengthening its academic and research activities by drawing on knowledge and expertise from both national and international sources. To achieve this goal, the university actively builds partnerships with renowned global universities, research institutions, professional organizations, industry partners, and leading experts. Faculty members, researchers, and students at MNSUAM contribute to the university's progress by collaborating with professionals, engaging in research, reviewing academic publications, and organizing conferences and seminars. These efforts help enhance the university's impact in the fields of agriculture, science, and technology.

MNS University of Agriculture, Multan has established strong partnerships with a total of 198 organizations. These include 78 international linkages comprising 46 academic institutions, 26 industries, and 6 corporate organizations and 120 national linkages, including 19 academic institutions, 62 industries, and 39 corporate entities. These collaborations are formalized through Agreements of Cooperation (AoCs), Memorandums of Understanding (MoUs), and Memorandums of Cooperation (MoCs).

The Directorate of External Linkages is responsible for expanding the university's global reach. Its key roles include attracting international students, arranging placements for students and faculty in top universities, strengthening academia-industry relations, and securing financial support for training, research, and development projects. This support is sought from national and international donors, alumni, civil society, and agro-based industries. MNSUAM regularly hosts delegations from both local and international organizations to explore and enhance partnerships that promote research, capacity building, outreach, and overall development especially in support of Pakistan's farming community.

15.1. Vision

To establish purposeful linkages with national and international academia, organizations, stakeholders, and industries for making a thriving win-win relationship.

15.2. Mission

To create links and consortia with relevant organizations that could help to strengthen scientific collaboration and enhance capacity building with an aim to strengthen professional learning and extend community services to meet ever-changing local, regional, and global demands through social transformation.

15.3. Achievements

During the financial year 2024-25, the Directorate of External Linkages at MNSUAM signed a total of 13 Agreements of Cooperation (AoCs), Memorandums of Understanding (MoUs), and Memorandums of Cooperation (MoCs). This includes 3 agreements with international organizations and 10 agreements with national public and private sector organizations.

15.4. AoCs/ MoUs / MoCs with International Organizations

Sr. No.	Subject of on-going AoC/MoU	Name of Collaborator (Party)	Focal Person	Date of Commencement	Date of Completion	Scope of Collaboration
1	Academia	Institute for Asian and African	Prof. Dr. Irfan Ahmed Baig	21-Aug-2024	Five year	Both parties agree to collaborate on bilateral



Studies,
Humboldt-
Universität zu
Berlin

exchange programs for students at all levels, joint educational programs and research projects. The parties will also exchange faculty and staff for research and professional development, and organize international.

2	Research and Development	Scientific Research Institute of Rainfed Agriculture, Republic of Uzbekistan	Dr. Hafiz Mohkum Hammad	07-Mar-2025	Five year	The aim of AOC: to foster academic and cultural collaboration across various educational and research disciplines. Specific agricultural cooperation includes exchange of plant seeds and genotypes, collaboration on color and hybrid wheat, and joint work on speed breeding.
3	Research and Development	Scientific Research Institute of Rainfed Agriculture, Republic of Uzbekistan	Dr. Muhammad Ali Sher	07-Mar-2025	Five year	The aim of AOC on fostering academic, cultural, and research collaboration across all disciplines offered by both institutions. The scope includes exchange of academic and administrative staff, student exchanges, joint research projects, to collaborate on color wheat, hybrid wheat, and speed breeding.

15.5. AoCs/ MoUs / MoCs with National Organizations

Sr. No.	Subject of on-going AoC/MoU	Name of Collaborator (Party)	Focal Person	Date of Commencement	Date of Completion	Scope of Collaboration
1	Research and Development	The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs	Dr. Alamgir Akhtar	3-Jul-2024	Three years	Joint research and development projects, combined and exchange degree programs, and organizing academic events such as lectures, symposia, seminars, and conferences.

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2	Research and development	Samsons Agri Farms, Rangpur, Muzaffargarh, Pakistan	Dr. Tanveer Ahmad	15-Jul-2024	Three year	Joint demonstration plots of hemp crop will be established for student training, and Samsons will offer paid internships and research opportunities to MNSUAM students. Technical analysis of phytochemicals will be conducted at MNSUAM's labs, funded by Samsons.
3	Academia	Yumnah Overseas Employment Promoters, Multan, Pakistan	Dr. Ahmad Mahmood	16-Aug-2024	Three year	To collaborate on specialized Japanese and Chinese language training programs aimed at preparing students for employment in Japan and China. Yumnah OEP will facilitate job placement services for students who successfully complete the courses and certification, including interview preparation.
4	Tree plantation initiative at MNSUAM under Corporate Social Responsibility	Sui Northern Gas Pipelines Limited (SNGPL)	Dr. Muqarrab Ali	29-Aug-2024	Three year	SNGPL will provide one-time funding for the "Establishment of Carbon Offsetting Plantation" project at MNSUAM, managed by Dr. Muqarrab Ali. Additionally, SNGPL will offer 4-6 week internships to MNSUAM students.
5	Research and Development	The Pakistan Institute of Development Economics (PIDE), Pakistan	Prof. Dr. Nasir Nadeem	25-Nov-2024	Three year	The agreement emphasizes collaboration to achieve the United Nations SDGs through joint efforts, fostering capacity building by

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6	Research and Development	FMC United Private Limited	Prof. Dr. Abdul Ghaffar	30-Nov-2024	8 Months	facilitating research, teaching, and providing Both parties agree to collaborate on a joint research and development project focused on generating baseline data and conducting a resistance monitoring study for Bixlozone.
7	Research and Development and Social Welfare	MG Agri Foods (Pvt) Ltd, Multan, Pakistan	Dr. Kashif Razzaq	07-Mar-2025	Five year	To support talented and financially needy students through research-based scholarships and gold medal awards in the field of Horticulture. Under this partnership, MG Agri Foods will provide four annual scholarships worth Rs. 336,000 for MSc (Hons) Horticulture students engaged in research aligned with mango export issues.
8	Research and Development	MG Agri Foods (Pvt) Ltd, Multan, Pakistan	Dr. Sami Ullah	07-Mar-2025	Five year Three year	To jointly promote scientific knowledge and support agricultural research. MNSUAM will conduct research trials, arrange labor and follow research protocols provided by the company. Additionally, MG Agri Foods will offer a six-month paid internship annually to final-year students of MNSUAM
9	Research and Development and Social Welfare	Islamic Relief Pakistan	Dr. Khuram Mubeen	19-May-2025	Three year Three year	The collaboration aims to advance joint research and development in food security, climate-resilient agriculture, livestock, and rural development. The



					Three year	partnership includes employee exchange programs. Islamic Relief Pakistan will give scholarships, and paid internships for MNSUAM students. The collaboration also prioritizes promoting inclusive climate adaptation and disaster risk reduction, especially in hill torrent-affected areas.
10	Promote Climate Smart Agriculture tools to enhance farm efficiencies, and its policy development	Rizq Trust, Pakistan	Prof. Dr.Irfan Ahmad Baig	17-Jun-2025	Three year	The collaboration includes jointly organizing policy dialogues on public policy and resource allocation, conducting research and development projects focused on smallholder farmers and regenerative agriculture, The partnership also aims to develop an agribusiness incubation training track, co-host events on sustainable farming practices, Additionally, joint efforts will align with Rizq’s core agricultural programs such as the Kisaan Dost Program, credit-based farmer financing, and corporate farming models.



Medical & Health Facilities





MEDICAL AND HEALTH FACILITIES

16.1. Available Medical Facilities

- Free ambulance service
- First aid services for students and employees of the university
- HIV, Hepatitis B, and Hepatitis C screening at the Wellness Centre
- Eye checkups at the Wellness Centre
- Basic health checkups
- Free counseling services
- Women Sanitary

16.2. Medical Camps

- Free HIV, Hepatitis B, and Hepatitis C screenings are available not only at the University Wellness Centre but also during community health checkups.
- An ongoing HIV screening initiative is in place for the transgender population of Multan to estimate the prevalence of HIV among this community.
- 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. For this, we have collected blood samples from potential TB patients, clinically confirmed the disease, and sent the samples to the UC Davis lab to assess the sensitivity of the new test.
- A complimentary dental camp has been organized to ensure the oral health of university staff and students. Qualified professionals provide advice and treatment at no charge during these camps.
- 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 HIV, Hepatitis B, and Hepatitis C screenings are available at the Wellness Centre.
- 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)

- Our collaboration with PACP has strengthened significantly. PACP conducted an HIV awareness seminar at the university, which included a poster competition. Students were awarded cash prizes worth PKR 120,000. Additionally, six MNSUAM students were sent to PACP for training in a Level 3 lab, where they worked on COVID-19, TB, and HIV.
- Our Collaboration with Health Services Academy is a key step in addressing health disparities through mutual data sharing program

16.6. BS and MS Public Health Programs

- The 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, IPP, MNSUAM, attended the meetings of District Emergency Response Committee (DERC) for Dengue vector management.
- Dr. Unsar Naeem Ullah, Associate Professor, MNSUAM invited as Guest speaker for presenting seminar on "Dengue Awareness" and a Walk in Department of Zoology, The Women University, Multan on September 18, 2024.



16.9. Community Services

- Dr. Muhammad Umair Waqas, along with the Public Health Society, is actively involved in a project focused on early screening of tuberculosis (TB) in slum communities of Multan, particularly in children. The project is carried out in collaboration with the National Health Institution in Islamabad and the University of California, Davis. The aim is to explore a more convenient method of TB diagnosis using blood samples, considering the challenge of sputum production in children.
- Furthermore, the Public Health Society has organized free medical camps in vulnerable communities in Multan. These camps aim to provide essential healthcare services to individuals in need, ensuring they have access to basic health facilities at no cost.

