



UNDERGRADUATE
PROSPECTUS
2023-24



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Disclaimer

The information provided in this prospectus is for the guidance of newly admitted students. Every effort has been made to ensure accuracy of information contained in this prospectus. The University reserves the right in every case and for any reason to introduce changes to the given information including addition, omission, withdrawal or restructuring of degree programs, courses, rules, policies, fees, or other matters. The prospectus is published by the prospectus committee appointed by the University authorities.

Prof. Dr. Muhammad Ashfaq Director, Institute of Plant Protection/ PO, Student Affairs	Convener
Prof. Dr. M. Hammad Nadeem Tahir Director, QEC	Member
Dr. Fawad Zafar Ahmad Khan Department of Outreach and Continuing Education	Member
Dr. M. Haseeb Raza Department of Agri. Business and Applied Economics	Member
Dr. Nadeem Iqbal Department of Computer Sciences	Member
Dr. Asghar Abbas Faculty of Veterinary and Animal Sciences	Member
Dr. Shazia Hanif Faculty of Agricultural, Biosystems Engineering and Technology	Member
Dr. Nighat Raza Department of Food Science and Technology	Member
Dr. M. Usman Jamshaid Department of Soil and Environmental Sciences	Member
Dr. Mirza Abid Mahmood Institute of Plant Protection	Member
Ms. Madiha Gohar Institute of Plant Breeding and Biotechnology	Member
Ms. Shafa Nayab Department of Horticulture	Member
Dr. Amar Matloob Department of Agronomy	Member/Secretary

Dear Prospective Students,

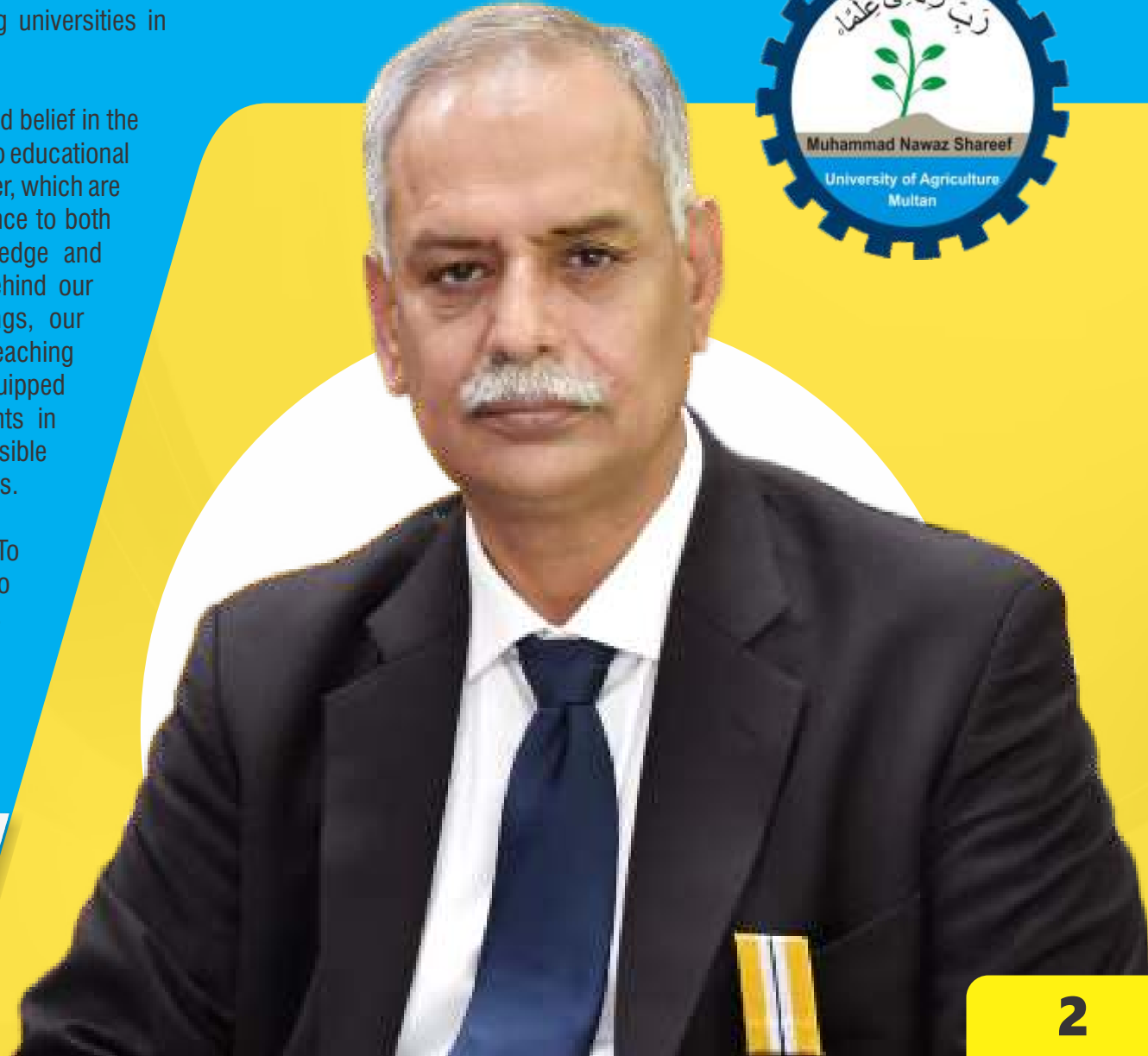
I extend my heartfelt appreciation to you for selecting Muhammad Nawaz Shareef University of Agriculture Multan as your destination for undergraduate education. With a decade-long experience of excellence and dedication, we continue to disseminate high-quality educational training to transform our students into future leaders. Over the course of a mere decade of establishment, we have achieved remarkable milestones, becoming one of the fastest-growing universities in Pakistan.

At MNS University of Agriculture, Multan, we hold a deep-rooted belief in the transformative power of education. Our unwavering dedication to educational leadership is evident in the quality of academic programs we offer, which are meticulously designed to be of the highest quality and relevance to both national and regional development. Your pursuit of knowledge and commitment to your studies serves as the driving force behind our continuous endeavors to excel. From its modest beginnings, our university has grown exponentially, with state-of-the-art teaching laboratories, research farms, student residences and a well-equipped Graduate Labs Block. We have made significant investments in developing our infrastructure to provide you with the best possible facilities in terms of agricultural research, education, and services.

Diversity lies at the very core of our purpose at MNSUAM. To promote a rich tapestry of ideas and experiences, we strive to embrace and celebrate the diverse viewpoints and backgrounds of our students and teachers. At MNSUAM, we are committed to fostering an environment where each person feels appreciated, respected, and motivated to reach their best potential. We firmly believe that promoting creativity,

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

Vice Chancellor's MESSAGE



Vice Chancellor's MESSAGE



innovation, and knowledge requires a diverse and inclusive learning environment.

Our esteemed academic team comprises indigenous and foreign qualified faculty members, who are specialists in their respective fields and committed to providing high-quality education, which is something we are proud of. Through their guidance and mentorship, we strive to instill in our students a desire for lifelong learning, critical thinking, and problem-solving skills. Students are encouraged to explore alternative perspectives and acquire a broad spectrum of knowledge through our emphasis on interdisciplinary learning, internship, and research. It is due to the excellent performance in education and research that MNSUAM shines prominently in the international university rankings.

In addition to supporting multidisciplinary research and study, we recognize the value of entrepreneurship in today's competitive market. For students to succeed on personal and professional levels, we firmly believe that it is essential to support the development of an entrepreneurial mind and skillset. The presence of the business incubation center at the university, which has successfully incubated multiple startups by our current students, indicates our dedication and commitment to this cause.

We understand that a university experience encompasses more than just academics, so we offer a wide range of student support services, including academic advising, career counseling, and mentoring programs, to ensure our students' holistic development. Our campus facilities and resources are designed to promote student well-being and create a nurturing environment conducive to their growth and success. The extracurricular activities, sports facilities, cultural events, and artistic programs provide a vibrant campus community to the students. Moreover, our esteemed alumni have made outstanding progress, and they continue to forge strong connections with our current graduates.

Finally, I encourage you to explore the opportunities that MNS University of Agriculture Multan, Pakistan, has to offer. We appreciate your interest in our university as a hub for higher education. We are looking forward to welcoming you as a member of our lively community and supporting you on your journey of academic and personal development.

Good luck!

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

Madina-tul-Aulya
MULTAN

3,721 square kilometers

*950 km from Karachi,
630 km from Islamabad and
356 km from Lahore*

*Some popular varieties of
Multani mangoes are
'Anwar Ratole',
'Langra',
'Dusehri' and
'Chaunsa'*





Multan has remained a center of learning, culture and civilization from ancient times. It is one of the oldest living cities in the world. A Chinese traveler, Hiuen Tsang, visited this city in 641 A.D. and mentioned its name as 'Mu-lo-san-pu-lu', a translation of 'Mulasthana-Pura'. The famous Iranian scholar, AlBeruni came to this city with his master, Sultan Mahmud Ghaznavi, in 1015 A.D., and referred to it as 'Mulatana'. Other historians namely Masudi (915 A.D.) and Ibn-eBatuta (1334 A.D.) also wrote about the city in their travelogues. For centuries, Multan has served as a trade hub between South and Central Asia. The city now stands as a combination of old and new Pakistan culture and has developed into a commercial and industrial center. Multan is also known as "Mandina-tu-Aulya", the city of saints. Several tombs and "Khanqahs" (hospices) of sufi scholars and saints have become the architectural landmark of this city. Some eminent saints buried here are Hazrat Bahauddin Zakariya, Shah Rukn-e-Alam, Shamsuddin Sabzwari (also known as Shah Shams), Shah Yousaf Gardez and Musa Pak Shaheed. Their shrines are beautifully decorated and ornamented with blue tiles, mosaic work and delightful Kashi Gari and Naqashi work, for which Multan is famous. The tomb of Shah Rukn-e-Alam is on the list of UNESCO World Heritage Site. The city is located at 740 ft. above sea level and spread over an area of 3,721 square kilometers. Positioned almost in the center of Pakistan, Multan is at an approximate distance of 950 km from Karachi, 630 km from Islamabad and 356 km from Lahore. The river Chenab is flowing in the west of Multan at a distance of six kilometers. The City is well connected with other parts of the country via excellent road and rail network 4 and an International Airport. The vast plain of Multan is dissected by numerous canals and water channels, which make its soil ideal for agriculture, cultivation of crops and growing fruits and vegetables. The major crops of Multan include wheat, cotton, sugarcane, rice, maize, sunflower, fodder crops etc., minor crops involve rapeseed and mustard, pulses i.e. chickpea, lentil, mung bean and mush bean etc., whereas mango, citrus, guava, date-palm, pomegranate, falsa, jujube, banana, strawberry and grapes are among popular fruits grown in the area. Multan is called the city of Mangoes for a reason, as its stiflingly hot climate provides the fruit a perfect environment to ripe into juiciest, thickest and the most aromatic mangoes in the world. Some popular varieties of Multani mangoes are 'Anwar Ratole', 'Langra', 'Dusehri' and 'Chaunsa'. Each of them is different in taste, size and quality of pulp. Multani Sohan Halwa, made of sugar, desi ghee and wheat flour and garnished with nuts and pistachios, is a special dessert, that every visitor to Multan takes with him as a compulsory item. Beautiful blue tiles, blue pottery, Multani Khussa (shoes), embroidered clothes for men and women and camel skin wares and camel bone jewelry are some other designated products of Multan. The reminiscence of old Multan city around the fort with its six gates give a glimpse to the visitors of its past glory. The new city has all hustle and bustle of a modern habitat, with wider roads, overhead bridges, glass showcased shops of electronics, furniture and clothes, busy markets, desi and fast food restaurants etc. All facilities like hospitals, schools, colleges, universities, banks, parks and other public utilities are available in the city. Majority of Multani people speak Saraiki language, but Punjabi and Urdu are also widely spoken.



MNSUAM

at a *GLANCE*



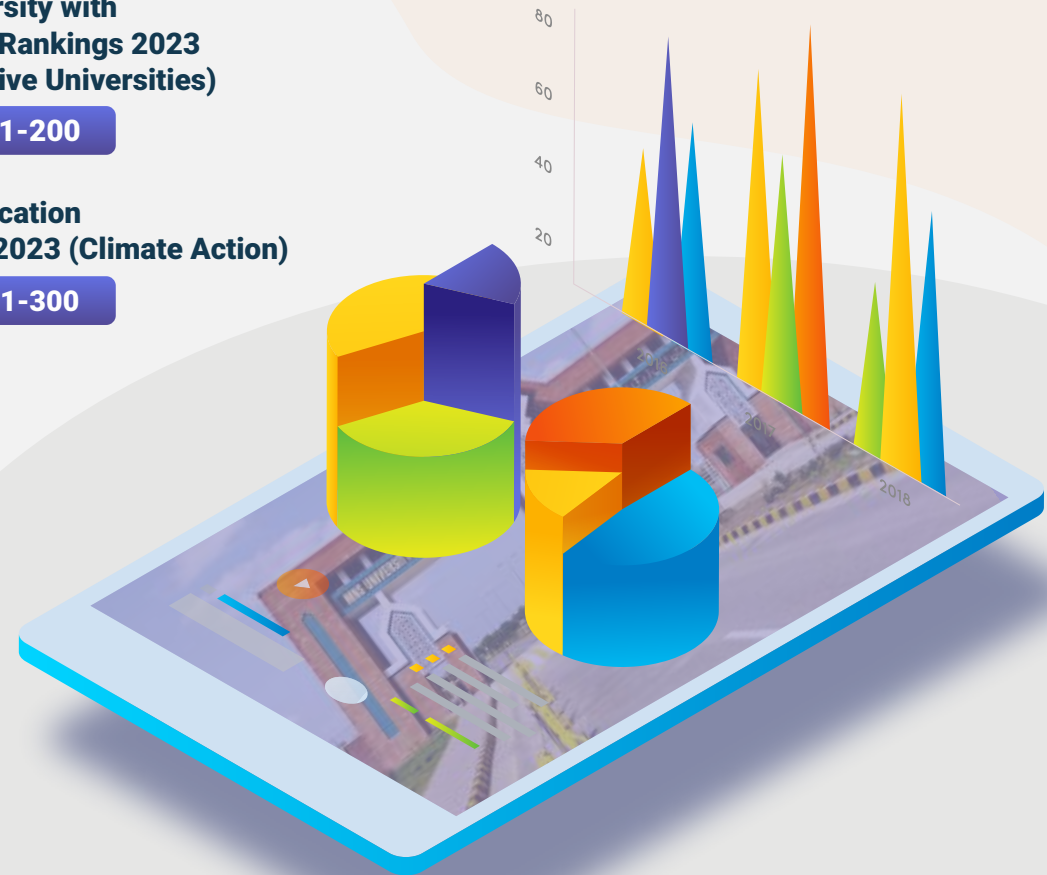
Students Enrollment	5975
Degree Programs	Undergraduate 28 Postgraduate 33
Faculty Strength	148
Students Societies/ Clubs	20
MoUs/ Agreements	155
Transportation	Buses 06 High Roof 02 Coaster 01
Accommodation Facility	Boys Hostel 01 Girls Hostel 01 Guest House 01
Skill Development	9.43 Million PKR
Library (Books)	5721
Computer Labs	05
Scholarships/ Stipends	39.51 Million PKR
Research Journal	01
Research Publications	274
Ongoing Research Projects	National 30 International 10 Industry 12
Conferences/Seminars/ Webinars	139
Faculty Development Trainings	34

World University with Real Impact Rankings 2023 (Top Innovative Universities)

101-200

Times Higher Education Impact Rankings 2023 (Climate Action)

201-300





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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. Besides Bachelor's level degree programs in Agriculture, Agribusiness, Computer Science and Information Technology, the University also offers F.Sc. Pre-Agriculture, and M.Sc. and Ph.D in various disciplines of Agricultural Sciences. The University has also started B.Sc. (Hons.) Human Nutrition and Dietetics, B.Sc. (Hons.) Poultry Science, B.Sc. Agro-industrial Engineering Technology, whereas 6 new undergraduate





degree programs and 5 MS/M.Sc./PhD programs are being initiated this year. 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 DiceAFS, 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 2021 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.





UNIVERSITY ADMINISTRATION

“the team beyond the success”





University Administration

The Syndicate is the highest executive body of the University, while Academic Council, Selection Board, Finance and Planning Committee, Board of Advanced Studies and Research, Board of Faculty, and Departmental Board of Studies are the other statutory bodies of the University. The administrative setup of the University is as follows:



OFFICE OF THE VICE CHANCELLOR

PROF. DR. ASIF ALI (T.I)



VICE CHANCELLOR

vc@mnsuam.edu.pk



MR. ADEEL JANJUA

Secretary to Vice Chancellor
svc@mnsuam.edu.pk



MR. RIAZ AHMAD

PS to VC/Assistant Registrar
riaz.hiraj@mnsuam.edu.pk



MR. ALI RAZA BURANA

Research Assistant
ali.burana@mnsuam.edu.pk



MS. AYESHA GHANI

Data Entry Operator
aysha.ghani@mnsuam.edu.pk

Faculty Coordinators/Deans



Prof. Dr. Irfan Ahmad Baig



Dean, FSS&H

dean.fssh@mnsuam.edu.pk



Prof. Dr. Shafqat Saeed



Dean, FA&ES

dean.faes@mnsuam.edu.pk



Prof. Dr. Muhammad Asif Raza



Coordinator, FV&AS

dean.fvas@mnsuam.edu.pk



Prof. Dr. Umar Farooq



Coordinator, FF&HS

umer.farooq@mnsuam.edu.pk



Office of the Registrar



www.mnsuam.edu.pk




- Mr. Naveed Ali**
 - Senior Clerk (General)
 - naveed.ali@mnsuam.edu.pk
- Mr. Azher Abbas**
 - Data Entry Operator
 - azher.abbas@mnsuam.edu.pk

- Mr. Imran Mahmood**
 - Registrar
 - registrar@mnsuam.edu.pk
- Ms. Somiya Ambreen**
 - Additional Registrar
 - somiya.ambreen@mnsuam.edu.pk
- Mr. Muhammad Zakir Khan**
 - Deputy Registrar (HR)
 - m.zakir@mnsuam.edu.pk
- Ms. Aisha Bibi**
 - Deputy Registrar (Acad.)
 - aisha@mnsuam.edu.pk
- Mr. Ajmad Ali Khan**
 - Assistant Registrar (General)
 - arg@mnsuam.edu.pk
- Mr. Khawar Ali**
 - Assistant Registrar (HR)
 - khawar.ali@mnsuam.edu.pk
- Rana Muhammad Naem**
 - Assistant Registrar
 - rarnaem.toor@mnsuam.edu.pk
- Mr. Tanveer Abbas**
 - Assistant (HR)
 - tanveer.abbas@mnsuam.edu.pk
- Mr. Muhammad Waseem**
 - Assistant (Acad.)
 - m.waseem@mnsuam.edu.pk

Office of the Treasurer






www.mnsuam.edu.pk




 **Mr. Mutahir Aziz**
 **Assistant Account Officer**
 mutahir.aziz@mnsuam.edu.pk






 **Mr. Muhammad Rafiq Farooqi**
 **Treasurer**
 treasurer@mnsuam.edu.pk

 **Mr. Akhtar Abbas**
 **Resident Auditor**
 akhtar.abbas@gmail.com

 **Mr. Muhammad Asif Nawaz**
 **Additional Treasurer**
 dy.treasurer@mnsuam.edu.pk

 **Mr. Rana Ali Zia Khan**
 **Deputy Treasurer**
 ali.zia@mnsuam.edu.pk

 **Mr. Inam Ullah Khan**
 **Deputy Treasurer**
 rana.inam@mnsuam.edu.pk

 **Mr. Shakil Ahmad**
 **Deputy Treasurer**
 shakil.ahmad@mnsuam.edu.pk

 **Mr. Sherzaman Khan**
 **Assistant Treasurer**
 sherzaman.khan@mnsuam.edu.pk

 **Mr. Shafi Ansari**
 **Subject Specialist (Audit & Accounts)**
 shafi.ansari@mnsuam.edu.pk

 **Mr. Muhammad Farhan**
 **Assistant**
 muhammad.farhan@mnsuam.edu.pk




Office of Research, Innovation and Commercialization (ORIC)






www.mnsuam.edu.pk




 **Ms. Sumia Shahid**
 **Administrative Assistant**
 **sumia.shahid@mnsuam.edu.pk**









 **Prof. Dr. Junaid Ali Khan**
 **Principal Officer**
 **oric@mnsuam.edu.pk**

 **Prof. Dr. Umar Farooq**
 **Additional Director**
 **umar.farooq@mnsuam.edu.pk**

 **Dr. Maher Iftikhar Ahmad**
 **Manager Research Development**
 **mrd.oric@mnsuam.edu.pk**




 **Dr. Abid Hussain**
 **Manager University I.L & T. Transfer**
 **mil.oric@mnsuam.edu.pk**

 **Ms. Samar Wafa Kabeer**
 **Assistant Director**
 **adir.oric@mnsuam.edu.pk**

 **Dr. Umair Riaz**
 **Industrial Liaison Officer**
 **umair.riaz@mnsuam.edu.pk**

 **Mr. Ahmad Hasham**
 **Research Officer (WEB)**
 **ahmad.hasham@mnsuam.edu.pk**

 **Mr. Muhammad Tariq Rashid**
 **Research Officer (IT)**
 **tariq.rashid@mnsuam.edu.pk**

 **Mr. Zeeshan**
 **Research Officer (HR)**
 **zeeshan.ahmad@mnsuam.edu.pk**

Quality Enhancement Cell



www.mnsuam.edu.pk



Prof. Dr. M. Hammad Nadeem Tahir



Director



qec@mnsuam.edu.pk



Ms. Somiya Ambreen



Focal Person for HEC



somiya.ambreen@mnsuam.edu.pk



Dr. Hafiz Muhammad Usman Aslam



Assistant Director



usman.aslam@mnsuam.edu.pk



Ms. Syeda Anum Masood Bokhari



Assistant Director



anum.masood@mnsuam.edu.pk



Engr. Hafeez Ahmed



Research Officer



hafeez.ahmed@mnsuam.edu.pk



Ms. Mehak Rehman



Data Entry Operator



mhk.rehman@mnsuam.edu.pk



Ms. Nadia Batool



Data Entry Operator



nadia.batool@mnsuam.edu.pk

Business Incubation and Agricultural Entrepreneurship Center (BIAEC)



www.mnsuam.edu.pk



Prof. Dr. Mubashir Mehdi



Director, BIAEC



mubashir.mehdi@mnsuam.edu.pk



Ms. Benish Sarfraz



Manager, BIAEC



benish.sarfraz@mnsuam.edu.pk

Directorate of University Farms



www.mnsuam.edu.pk



Dr. Abdul Ghaffar



Director



abdul.ghaffar@mnsuam.edu.pk



Mr. Mahmood Alam Khan



Deputy Director/Farm Manager (Multan)



mahmood.alam@mnsuam.edu.pk



Mr. Khurram Shahbaz



Farm Manager (Multan)



khurram.shahbaz@mnsuam.edu.pk



Mr. Abid Raza



Farm Manager (JPP)



abidraza2211@gmail.com



Mr. Nabeel Ahmad Ikram



Land Utilization Officer



nabeel.ahmad@mnsuam.edu.pk

Student Financial Aid Office



www.mnsuam.edu.pk



Dr. Kashif Razaq

Chairman, Scholarship Committee
kashif.razaq@mnsuam.edu.pk



Dr. Shazia Hanif

Assistant Director
shazia.hanif@mnsuam.edu.pk



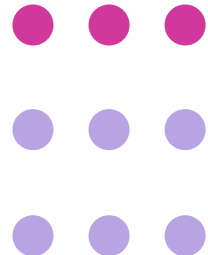
Mr. Ahsan Murad

Assistant
ahsan.murad@mnsuam.edu.pk

Directorate of Estate Management



www.mnsuam.edu.pk



Prof. Dr. Muhammad Asif Raza



Director



demo@mnsuam.edu.pk



Dr. Tanveer Ahmad



Deputy Director / Incharge Arboriculture



tanveer.ahmad@mnsuam.edu.pk



Dr. Wazir Ahmad



Estate Officer / Chief Security Officer



estate.officer@mnsuam.edu.pk



cso@mnsuam.edu.pk



Dr. Mudssar Ali



Estate Officer



mudssar.ali@mnsuam.edu.pk



Dr. Muqarrab Ali



**Coordinator, Community Development/
Incharge Nursery**



muqarrab.ali@mnsuam.edu.pk



Engr. Hafiz Abu Mazhar Ahmad



Head, Electrical Wing



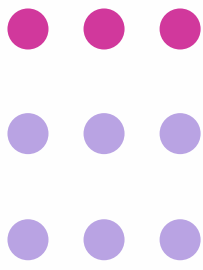
mazhar@mnsuam.edu.pk



Dr. Hafiz Mohkum Hammad

Director External Linkages
del@mnsuam.edu.pk

Directorate of External Linkages



www.mnsuam.edu.pk



Office of the Controller of Examinations



www.mnsuam.edu.pk



Mr. Zulfiqar Ali Tabassum



Controller of Examinations



controller.exams@mnsuam.edu.pk



Mr. Adeel Janjua



Deputy Controller of Exams



adeeljanjua111@mnsuam.edu.pk



Mr. Muhammad Ali Raza



Deputy Controller of Exams



muhammad.aliraza@mnsuam.edu.pk



Engr. Hafiz Abu Mazhar Ahmad



Deputy Controller of Exams



mazhar@mnsuam.edu.pk



Mr. Shaukat Ali



Assistant



shaukat.ali@mnsuam.edu.pk



Mr. Najeeb ur Rehman



Senior Clerk



najeeb.rehman@mnsuam.edu.pk

Directorate of Graduate Studies



www.mnsuam.edu.pk



Prof. Dr. Nasir Nadeem



Director



nasir.nadeem@mnsuam.edu.pk



Dr. Rao Muhammad Ikram



Assistant Director



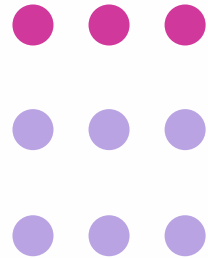
rao.ikram@mnsuam.edu.pk



Directorate of Procurement and Inventory Control



www.mnsuam.edu.pk



Mr. Muhammad Rafiq Farooqi



Director (P&IC)



rafiq.farooqi@mnsuam.edu.pk



Mr. Azeem Afzaal



Deputy Director (P&IC) / Incharge (Uni.Store)



azeem.afzaal@mnsuam.edu.pk



Mr. Muhammad Shakir Khan



Junior Auditor



rshakir742@gmail.com



Mr. Muhammad Tariq Nawaz



Senior Clerk



tariq.nawaz@mnsuam.edu.pk



Dr. Nadeem Ahmed



Purchase Inspector



nadeem.ahmad@mnsuam.edu.pk



Public Relations and Publications



www.mnsuam.edu.pk



Prof. Dr. Irfan Ahmad Baig



Principal Officer



irfan.baig@mnsuam.edu.pk



Dr. Amar Matloob



Incharge (News Bulletin)



amar.matloob@mnsuam.edu.pk



Mr. Riaz Ahmad Hiraj



Deputy Registrar (PRP)



pro@mnsuam.edu.pk


Directorate of Planning and Development/Engineering
and Construction Department



www.mnsuam.edu.pk

 **Mr. Yasir Arfat Khan**

-  Sub Engineer
-  yasir.arfat@mnsuam.edu.pk

 **Mr. Muhammad Farhan**

-  Sub Engineer
-  sohail.akhtar@mnsuam.edu.pk



 **Mr. Imran Mahmood**

-  Director (P&D)
-  imran.mahmood@mnsuam.edu.pk


 **Mr. Rana Muhammad Tufail**


-  Project Director
-  pd@mnsuam.edu.pk



 **Mr. Ahmed Nadeem**

-  PD/Executive Engineer
-  xen@mnsuam.edu.pk

 **Mr. Azeem Afzaal**


-  Deputy Director (P&D)
-  azeem.afzaal@mnsuam.edu.pk



 **Malik Muhammad Iqbal Javed**


-  Assistant Executive Engineer
-  sdo@mnsuam.edu.pk

 **Mr. Khawar Ali**


-  Research Officer
-  khawar.ali@mnsuam.edu.pk



 **Mr. Saleem**

-  Accountant
-  m.shakir@mnsuam.edu.pk

 **Mr. Muhammad Waqas**

-  Sub Engineer
-  muhammad.waqas@mnsuam.edu.pk

 **Mr. Rana Sohail Akhtar**

-  Sub Engineer
-  sohail.akhtar@mnsuam.edu.pk



Directorate of Students Affairs



www.mnsuam.edu.pk



Prof. Dr. Muhammad Ashfaq



Principal Officer



mashfaq@mnsuam.edu.pk



Dr. Mirza Abid Mehmood



Director, Students Affairs



dsa@mnsuam.edu.pk



Dr. M. Usman Jamshaid



Senior Tutor



usman.jamshaid@mnsuam.edu.pk



Dr. Mudassir Aziz



Deputy Director, Students Affairs (Male)



mudassir.aziz@mnsuam.edu.pk



Dr. M. Mohsin Khan



Deputy Director, Students Affairs (Male)



mohsin.khan@mnsuam.edu.pk



Dr. Nighat Raza



Deputy Director, Students Affairs (Female)



nighat.raza@mnsuam.edu.pk



Dr. Kashif Hussain



Deputy Senior Tutor (Male)



kashif.hussain@mnsuam.edu.pk



Ms. Shafa Nayab



Deputy Senior Tutor (Female)



shafa.nayab@mnsuam.edu.pk

Directorate of IT



www.mnsuam.edu.pk



Prof. Dr. Irfan Ahmad Baig



Incharge, IT Services



irfan.baig@mnsuam.edu.pk



Dr. Abdul Razzaq



Director



abdul.razzaq@mnsuam.edu.pk



Mr. Abdul Quddos



Assistant Web Developer



a.quddus@mnsuam.edu.pk

Office of the Hall Warden



www.mnsuam.edu.pk



Dr. Mirza Abdul Qayyum



Hall Warden



hallwarden@mnsuam.edu.pk



Dr. Muhammad Shahbaz



Superintendent, Boys Hostel



shahbaz.ft@mnsuam.edu.pk



Mr. Abd Ur Rehman



Assistant Superintendent, Boys Hostel



abdur.rehman@mnsuam.edu.pk



Dr. Ahmad Mahmood



Assistant Superintendent Boys Hostel



ahmad.mahmood@mnsuam.edu.pk



Ms. Plosha Khanum



Superintendent, Girls Hostel



plosha.khanum@mnsuam.edu.pk



Dr. Shazia Hanif



Assistant Superintendent Girls Hostel



shazia.hanif@mnsuam.edu.pk



Ms. Misbah Saghir



Psychologist



misbah.saghir@mnsuam.edu.pk

Sports Section



www.mnsuam.edu.pk



Mr. Muhammad Arqam Iqbal



Director Sports



sports@mnsuam.edu.pk



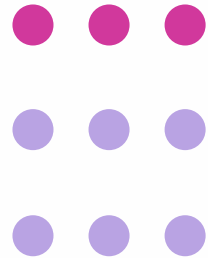
Mr. Qaisar Javed



Sports Coach



qaiser.javed@mnsuam.edu.pk



Central Library



www.mnsuam.edu.pk



Dr. Ambreen Naz



Chief Librarian



ambreen.naz@mnsuam.edu.pk



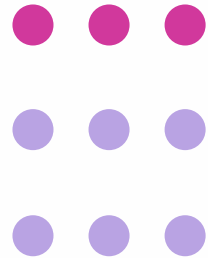
Ms. Rubina Ahmed



Deputy Librarian



rubina.ahmed@mnsuam.edu.pk





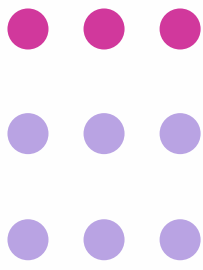
Dr. Rana Binyamin

Transport Officer
binyamin@mnsuam.edu.pk

Transport Office



www.mnsuam.edu.pk





Faculty of Agriculture & Environmental Sciences

- Institute of Plant Breeding and Biotechnology
- Institute of Plant Protection
- Department of Agronomy
- Department of Forestry Science
- Department of Horticulture
- Department of Soil and Environmental Sciences





Dean's Message

Dear Students! Welcome to the Faculty of Agriculture and Environmental Sciences (FAES). FAES is one of the pioneer faculties in the University and comprises of two institutes and four departments. Our faculty members are committed to taking all challenges as an opportunity through teaching and research. We believe in problem-oriented research for the betterment of our society. We love exploring innovative approaches and collaborating with national and international institutes. Our research focuses on healthy and viable seed production, improving soil health for sustainable crop production, development of improved crop varieties along with advanced cultural practices, climate-smart cropping systems, sustainable weed management, insect toxicology, pesticide resistance, integrated pest management, drip irrigation system, hydroponics, tunnel farming, agro-forestry, pre-and post-harvest technologies of crops and fruits. Whether there is disease outbreak in crop plants, insect pest epidemics, or any other agricultural issue, we always stay alert and proactive in providing intellectual advisory to policymakers to ensure national food security. Our core motive is to produce a creative environment where students can get skill-based knowledge in the disciplines of agriculture and environmental sciences to embrace future challenges in the best possible way. We also aim to produce qualified professionals, critical thinkers, and researchers who will serve the nation in quest of a knowledge-based economy. Together with our stakeholders, we are making strides towards our goal of transforming this University into a world-class institute. Join us for your better future!

The Faculty of Agriculture and Environmental Sciences (FA&ES) was established in 2015 as the first faculty in MNS-University of Agriculture, Multan. The faculty has energetic team of 66 full time faculty members (50 PhD and 16 Non PhD) with diverse background and academic experiences at top universities in Australia, China, Germany, Korea, Singapore, UK, USA etc. The faculty members have published more than 750 research papers and won more than 50 projects from national and international funding agencies like Higher Education Commission, Punjab Agriculture Research Board, Agricultural Linkages Program, Punjab Skill Development Fund, Prime Minister Youth Development Fund, USAID, Australian Centre for International Agricultural Research (ACIAR), and DAAD Germany. In FA&ES, there are 68 students enrolled in Ph.D., 392 students in M.Sc. (Hons.) and 1394 students in B.Sc. (Hons.)

Agriculture. The learning system of the faculty is based on modern lines can be easily switched on physical and online classes. The flexible teaching system in which courses offered in module system with blended learning approaches makes the faculty a step ahead during COVID-19 Pandemic crises.



INSTITUTE OF PLANT BREEDING & BIOTECHNOLOGY





INSTITUTE OF PLANT BREEDING & BIOTECHNOLOGY

The Institute of Plant Breeding and Biotechnology (IPBB) at MNSUAM offers undergraduate and postgraduate degree programs in the subjects of Plant Breeding and Genetics, Seed Science and Technology and Biotechnology. The institute was established with the aim of developing improved crop varieties and improving seed systems through the integration of conventional plant breeding techniques with modern biotechnological tools. The institute has qualified faculty actively involved in developing the latest curriculum and promoting effective research and development activities in the University. The institute is running several research projects funded by national and international funding agencies including Agricultural Development Program (ADP), Govt. of the Punjab, Punjab Agricultural Research Board (PARB), Higher Education Commission (HEC), Agricultural Linkages Program (ALP), DFID, ACIAR and USAID. The Institute is also running a project for establishing "National Crop Genomics and speed Breeding Centre for Agriculture Sustainability" for conducting research focused on genetic improvement of crops using genomic techniques and speed breeding protocols shortening the duration of developing varieties with desirable traits. The institute has also initiated an outreach program for establishing linkages between the farming community, industry, and the researchers to solve the problems of the stakeholders. The institute frequently arranges seminars, conferences and workshops to discuss burning issues of agriculture and also to bring new research ideas for the young faculty and postgraduate students.



DR. M. HAMMAD NADEEM TAHIR
Professor and Director

Ph.D, Post-Doc

● Expertise:
Genetic Improvement of Oilseeds
and Fodder Crops, Breeding Soybean for
Adaptability in Scenario of Climate Change

● Email:
hammad.nadeem@mnsuam.edu.pk



DR. M ABU BAKAR SADDIQUE
Assistant Professor

Ph.D

● Expertise:
Pulses and Vegetables
Molecular Breeding

● Email:
abubakar.siddique@mnsuam.edu.pk



DR. ZULQURNAIN KHAN
Assistant Professor

Ph.D

● Expertise:
Genome Editing and
Plant Transformation

● Email:
zulqurnain.khan@mnsuam.edu.pk



DR. MUHAMMAD FAISAL
Assistant Professor

Ph.D, Post-Doc

● Expertise:
Next Generation Sequencing
(NGS), Molecular Biology, Bioinformatics

● Email:
muhammad.faisal@mnsuam.edu.pk



DR. M. AMIR BAKHTAVAR
Assistant Professor

Ph.D

● Expertise:
Seed Physiology, seed storage, Seed Enhancements

● Email:
amir.bakhtavar@mnsuam.edu.pk



DR. MUHAMMAD ASAF KHAN
Associate Professor

Ph.D, Post-Doc

● Expertise:
Hormonal Regulation of Stress
Tolerance in Crop Plants, Bioinformatics

● Email:
muhammad.asaf@mnsuam.edu.pk



DR. UMMARA WAHEED
Assistant Professor

Ph.D

● Expertise:
Genetic Transformation, Tissue
Culturing and Genome Editing

● Email:
ummara.waheed@mnsuam.edu.pk



DR. SHOAIB UR REHMAN
Assistant Professor

Ph.D, Post-Doc

● Expertise:
Marker Assisted Breeding, SNPBased
Gel Free and Gel-Based Markers,
Germplasm Enhancement

● Email:
shoaib.rehman@mnsuam.edu.pk



DR. AKASH FATIMA
Assistant Professor

Ph.D

● Expertise:
Development of Climate Resilient
Cotton through Precision Breeding and Gene
Expression Profiling

● Email:
akash.fatima@mnsuam.edu.pk



DR. MUHAMMAD ASIF SHEHZAD
Assistant Professor

Ph.D

● Expertise:
Abiotic Stresses

● Email:
asif.shehzad@mnsuam.edu.pk



DR. SHAHID IQBAL

Ph.D

Assistant Professor
 ● Expertise:
 Crop Physiology, Seed
 Physiology, Crop Diversification

● Email:
 shahid.iqbal@mnsuam.edu.pk



DR. MUHAMMAD ALI SHER

Lecturer

Ph.D

● Expertise:
 Association Mapping, Hybrid
 Wheat Development, Maize Breeding

● Email:
 ali.sher@mnsuam.edu.pk



MR. MAHMOOD ALAM KHAN

Lecturer

M.Sc. (Hons.)

● Expertise:
 Farm Management, Seed Production System

● Email:
 mahmood.alam@mnsuam.edu.pk



MS. SAIMA RASHEED (STUDY LEAVE)

Lecturer

M.Phil

● Expertise:
 Plant Abiotic Stress

● Email:
 saima.rashid@mnsuam.edu.pk



MS. MADIHA GOHAR

Lecturer

M.Sc. (Hons.)

● Expertise:
 Hybrid Speciation, Cytogenetics

● Email:
 madiha.gohar@mnsuam.edu.pk



MR. BABAR FARID

Lecturer

M.Sc. (Hons.)

● Expertise:
 Doubled Haploid Technology
 in Maize Breeding, Maize Developmental
 Biology and Plant Architecture

● Email:
 babar.farid@mnsuam.edu.pk



DR. PLOSHA KHANAM

Lecturer

Ph.D

● Expertise:
 Tissue Culture of Date Palm,
 Sugarcane and Ornamental Flowers

● Email:
 plosha.khanum@mnsuam.edu.pk



MR. FURQAN AHMAD

Lecturer

M.Sc. (Hons.)

● Expertise:
 Cotton Genetics and Molecular
 Breeding for Abiotic Stress

● Email:
 furqan.ahmad@mnsuam.edu.pk



DR. SEHRISH IJAZ

Lecturer

Ph.D

● Expertise:
 Gene Cloning, Protein-Protein
 Interaction and NGS

● Email:
 sehrish.ijaz@mnsuam.edu.pk



INSTITUTE OF PLANT PROTECTION





INSTITUTE OF PLANT PROTECTION

Climate change is a global phenomenon putting diverse cascading effects on every sphere of life on the earth, including agriculture. On the other hand, the world's population is increasing which demands to produce sufficient amount of food. With the prevailing scenario of climate change, a vast diversity of insect pests, diseases, and weeds invade crops, vegetables, fruit, and forest trees and cause huge losses to their production both in on-farm and post-harvest / storage. This Institute has inherited ties with local research institutes like CCRI, CRS, MRI, AMRI, and Agri. Extension, Pest Warning, and Quality Control of Pesticides. These links will pave the path to grooming the Institute's students professionally and. Several research projects have been submitted to renowned funding agencies of National and International fame like Higher Education Commission (HEC), USAID, Pakistan Science Foundation, Pakistan Agriculture Research Board (PARB), and International Foundation for Science (IFS), ACIAR, and JICA. Moreover, six research projects have been funded by PARB, HEC, and IFS on Cotton Whitefly, Cotton Blackening and Pink bollworm, Mango Fruit and Shoot Borer and Mango Fruit Fly, and viruses of onion and garlic, respectively. Currently, active programs are B.Sc. (Hons.) Agriculture (Entomology & Plant Pathology), M.Sc. (Hons.) Entomology, M.Sc. (Hons.) Plant Pathology, Ph.D. Entomology, and Ph.D. Plant Pathology. The Institute of Plant Protection (IPP) has developed a blended teaching system for effective learning. IPP has been practicing a learning management system (LMS) without compromising the standards of teaching. The IPP faculty has recently organized two conferences i.e. International Conference on Smart Plant Protection and International Conference for Bee Pollination & Conservation. Many scientists, academia, policymakers, students, and farmers have participated in these gatherings. At the end, besides other technical policy points about locust management, all speakers agreed that collaborative efforts at the national and international level are necessary for effective pest management. Moreover, the Institute is also actively engaged in developing a biological control of locusts, which threatens the commercial production of various crops in Southern Punjab. Similarly, the regional community is also getting benefits from the institute in the form of diagnostic facilities for pests and diseases and the best possible solution for their management.

INSTITUTE OFF PLANT PROTECTION



DR. MUHAMMAD ASHFAQ

Director IPP/Professor

Ph.D, Post-Doc

● Expertise:
Molecular Plant Virology

● Email:
mashfaq@mnsuam.edu.pk



DR. UNSAR NAEEM-ULLAH

Associate Professor

Ph.D

● Expertise:
Medical Entomology, Insect Taxonomy

● Email:
unsar.naeem@mnsuam.edu.pk



DR. RANA BINYAMIN

Associate Professor

Ph.D

● Expertise:
Plant Virology

● Email:
binyamin@mnsuam.edu.pk



DR. HASAN RIAZ

Assistant Professor

Ph.D

● Expertise:
Evolutionary virology, Endophyte based
biostimulants, Aflatoxin testing

● Email:
hasan.riaz@mnsuam.edu.pk



DR. NAEEM IQBAL

Assistant Professor

Ph.D

● Expertise:
Household Pest Management

● Email:
naeem.iqbal@mnsuam.edu.pk



DR. SHAFQAT SAEED

Professor

Ph.D, Post-Doc

● Expertise:
Integrated Pest Management, Pollination Ecology

● Email:
shafqat.saeed@mnsuam.edu.pk



DR. MIRZA ABDUL QAYYUM

Associate Professor

Ph.D

● Expertise:
Microbial Pest Management

● Email:
qayyum.mirza@mnsuam.edu.pk



DR. NADEEM AHMED

Assistant Professor

Ph.D

● Expertise:
Plant Disease Epidemiology

● Email:
nadeem.ahmad@mnsuam.edu.pk



DR. MUDSSAR ALI

Assistant Professor

Ph.D

● Expertise:
Pollination Ecology, Bee Conservation

● Email:
mudssar.ali@mnsuam.edu.pk



DR. MUHAMMAD ISHTIAQ

Assistant Professor

Ph.D

● Expertise:
Pest Management, Insecticide Resistance

● Email:
m.ishtiaq@mnsuam.edu.pk

INSTITUTE OFF PLANT PROTECTION



DR. AKHTAR HAMEED

Assistant Professor

Ph.D

- Expertise:
Bacteriology, Microbiology
- Email:
akhtar.hameed@mnsuam.edu.pk



DR. FARRUKH BAIG

Assistant Professor

Ph.D, Post-Doc.

- Expertise:
Insect Chemical Ecology
- Email:
farrukh.baig@mnsuam.edu.pk



MS. HAFIZA TAHIRA GUL

Lecturer

M.Sc. (Hons.)

- Expertise:
Entomopathogenic fungi, Termite Management
- Email:
tahira.gul@mnsuam.edu.pk



DR. MIRZA ABID MEHMOOD

Lecturer

Ph.D

- Expertise:
Microbiome, Phytobiome, Meta-omics
- Email:
abid.mehmood@mnsuam.edu.pk



DR. MUHAMMAD ARSLAN KHAN

Lecturer

Ph.D

- Expertise:
Plant Nematology, Biopesticides
- Email:
arslan.khan@mnsuam.edu.pk



DR. MUHAMMAD NADIR NAQQASH

Assistant Professor

Ph.D

- Expertise:
IPM Planning, Biopesticides
- Email:
nadir.naqqash@mnsuam.edu.pk



DR. MUHAMMAD ASIF FAROOQ

Assistant Professor

Ph.D

- Expertise:
Pesticide residues, Fruit IPM
- Email:
asif.farooq@mnsuam.edu.pk



MR. ASIF MAHMOOD ARIF

Lecturer

M.Sc. (Hons.)

- Expertise:
Stress Physiology
- Email:
fahim.nawaz@mnsuam.edu.pk



DR. HAFIZ M. USMAN ASLAM

Lecturer

Ph.D

- Expertise:
Mycology, Molecular characterization of fungal plant pathogens
- Email:
usman.aslam@mnsuam.edu.pk



DEPARTMENT OF AGRONOMY



DEPARTMENT OF AGRONOMY



The Department of Agronomy is excelling to earn a reputation of excellence in outcome-based agronomic education with a focus on problem-oriented research related to crop production and soil management under a changing climate scenario. A dedicated and highly qualified faculty, having hands-on experience in agronomic teaching and research at national and international institutes, makes it one of the most accomplished departments in the University. So far, the Department of Agronomy at MNS-University of Agriculture, Multan has published more than 320 international papers in referred journals, won 15 research projects and submitted several others competitive grants. The Department also organizes international workshops and seminars on contemporary issues of agriculture in a changing climate scenario. Advisory services to farmers are also being provided. The Department has all the basic facilities like lecture rooms, well-equipped research laboratories, text books and reference materials for undergraduate and postgraduate degree programs. The students are blessed with diverse learning facilities ranging from lectures to interactive tutorials, brain storming sessions and field work involving advanced audio-visual aids, and paid internships.



VISION

To achieve excellence in agronomic education and provide leadership with focus on problem-oriented research related to sustainable crop production and soil management for the development of the farming community.



MISSION

To provide technically trained human resources in the field of Agronomy with disciplinary knowledge to cope with crop production under dwindling natural resources and climate change.



DR. ABDUL GHAFFAR

Professor and Chairman

Ph.D

● Expertise:
Climate Smart and Sustainable agriculture, Farming/
Cropping systems and Conservation Agronomy

● Email:
abdul.ghaffar@mnsuam.edu.pk



DR. HAFIZ MOHKUM HAMMAD

Associate Professor

Ph.D

● Expertise:
Crop Growth Modeling, Climate Change

● Email:
hafiz.mohkum@mnsuam.edu.pk



DR. FAHIM NAWAZ

Assistant Professor

Ph.D

● Expertise:
Stress Physiology

● Email:
fahim.nawaz@mnsuam.edu.pk



DR. RAO MUHAMMAD IKRAM

Assistant Professor

Ph.D

● Expertise:
Weed Science, Allelopathy

● Email:
rao.ikram@mnsuam.edu.pk



DR. AMAR MATLOOB

Assistant Professor

Ph.D

● Expertise:
Weed Science and Allelopathy, Stress Agronomy

● Email:
amar.matloob@mnsuam.edu.pk



DR. MUQARRAB ALI

Assistant Professor

Ph.D

● Expertise:
Crop Nutrition, Sustainable and Organic Agriculture

● Email:
muqarrab.ali@mnsuam.edu.pk



DR. KHURAM MUBEEN

Assistant Professor

Ph.D

● Expertise:
Weed Science, Resource Conservation

● Email:
khuram.mubeen@mnsuam.edu.pk



DR. M. HABIB UR REHMAN

Lecturer

Ph.D

● Expertise:
Cropping System Modeling, Climate Change

● Email:
habib_rehman@mnsuam.edu.pk



Dr. MUDASSIR AZIZ

Lecturer

Ph.D

● Expertise:
Stress Agronomy, Crop Nutrient Management

● Email:
mudassir.aziz@mnsuam.edu.pk



MR. NABEEL AHMAD IKRAM

Lecturer

M.Sc. (Hons.)

● Expertise:
Weed Crop Interference, Agronomic Biofortification

● Email:
nabeel.ahmad@mnsuam.edu.pk

DEPARTMENT OF HORTICULTURE



Department of Horticulture comprises of young, energetic and motivated faculty, staff as well as research team having diverse experience and strong commitment towards teaching, research and outreach. The Departmental faculty consists of a professor, two associate professor, three assistant professors, and three lecturers: all having rich teaching and research experience together with numerous publications in national and international peer-reviewed journals and conferences proceedings.

The Department offers degree programs in B.Sc. (Hons.), M.Sc. (Hons.) and Ph.D. with specialization in Horticulture subject. The curriculum of these degree programs is regularly reviewed and revised keeping in view the HEC guidelines, needs of a farming community and global developments which is duly approved through statutory bodies. The Department was established in 2015.

As far as research and development are concerned; various projects worth Rs. 32 million are under progress including, supply chain management of minor fruits (Rs. 8.6 million); vegetable grafting (Rs. 3.4 million); standardization of pomegranate production practices (Rs. 6.6 million); postharvest management of strawberry (Rs. 7.5 million) and collection and conservation of phalsa landraces (Rs. 2.9 million), production of certified mango nursery for small tree system, selection and conservation of elite jamun (*Syzigium Cumini* Skeels.) genotypes, adapting to salinity in southern indus basin, and role of ornamental plants to mitigate soil heavy pollution, funded by Higher Education Commission of Pakistan, Punjab Agricultural Research Board, and Pakistan Agriculture Research Council etc.; while projects worth Rs. 1.5 million have been completed during the last years. The Department is focused to conduct trans-disciplinary research





and development in nursery raising, production systems, postharvest management, supply chain improvement, value addition and marketing of horticultural crops including fruits, ornamental plants and, vegetables including mushrooms. Various field and laboratory facilities are available for teaching, demonstration and skill development of students and conducting industry-oriented research on horticultural crops and products.

The Department is actively involved in outreach activities for farming communities and agro-industries. Considering the geographical location of MNS-UAM in the main mango growing area of Pakistan the department emphasizes creating awareness, branding and networking in mango production, supply and value chains. In this regard, the department has the pride to organize an annual mango festival in Multan to provide a platform to mango stakeholders including growers, exporters, processors, nursery owners, fertilizer companies/dealers, pesticide companies, banks and several other organizations etc. These opportunities provide them with a platform to display their products that attract national and international business networking. Moreover, the event also includes festivity, competition opportunities and awareness for the general public. In addition, the Department also arranges regular seminars and workshops to disseminate information related to international compliances on quality and safety and facilitates/develops the capacity of growers to grow export quality produce. The organization of training course on mango small tree system and general orchard management at core mango production areas of Pakistan including Hyderabad, Rahim Yar Khan and Multan is a new national activity introduced by the Department to create awareness in mango industry and develop technical capacity to get higher mango yields with premium quality. Under this activity, over 300 growers and other stakeholders belonging to different areas of Pakistan were trained during 2019 and 2020 and over 1000 acres of mango orchards under mango small tree system have been established. Moreover, the Departmental faculty has also taken lead in demonstrating the hydroponic and soilless cultivation of various horticultural crops including tomato, bell pepper, cucumber and strawberry. The technology has been demonstrated to several hundreds of stakeholders including growers, traders, researchers, investors, policymakers etc. Various farmers and investors get consultancy from the departmental faculty for vegetable production under a protected environment.

DEPARTMENT OF HORTICULTURE



DR. TANVEER AHMAD
Associate Professor and Chairman

Ph.D

- Expertise:
Olericulture

● Email:
tanveer.ahmad@mnsuam.edu.pk



DR. ISHTIAQ AHMAD RAJWANA
Professor and Pro Vice Chancellor

Ph.D

- Expertise:
Quality Improvement, Postharvest Technology,
Genetic Conservation

● Email:
ishtiaq.rajwana@mnsuam.edu.pk



DR. KASHIF RAZZAQ
Associate Professor

Ph.D

- Expertise:
Pomology, Postharvest, Physiology of Fruits

● Email:
kashif.razzaq@mnsuam.edu.pk



DR. HAFIZ NAZAR FARIED
Assistant Professor

Ph.D

- Expertise:
Olericulture, Tunnel Farming

● Email:
nazar.farid@mnsuam.edu.pk



DR. SAMI ULLAH
Assistant Professor

Ph.D

- Expertise:
Pomology, Postharvest, Physiology of Fruits

● Email:
sami.ullah1@mnsuam.edu.pk

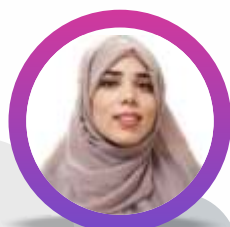


DR. GULZAR AKHTAR
Assistant Professor

Ph.D

- Expertise:
Floriculture and Landscaping, Plant Tissue Culture

● Email:
gulzar.akhtar@mnsuam.edu.pk



MS. SHAFAYAT NAYAB
Lecturer

M.Sc. (Hons.)

- Expertise:
Pomology, Postharvest

● Email:
shafa.nayab@mnsuam.edu.pk



MS. SYEDA ANUM MASOOD BOKHARI
Lecturer

M.Sc. (Hons.)

- Expertise:
Fruit Breeding, Tissue Culture

● Email:
anum.masood@mnsuam.edu.pk



MR. MUHAMMAD USMAN KHAN
Lecturer

M.Sc. (Hons.)

- Expertise:
Tissue Culture

● Email:
usman.khan@mnsuam.edu.pk



DEPARTMENT OF SOIL & ENVIRONMENTAL SCIENCES

The economic prosperity, agricultural advancement, and sustainable growth of a country intricately hinge upon the potential of its soil and environment. The intricate nexus between soil quality, environmental conditions, and agricultural practices becomes a key indicator for fostering resilience, productivity, and ultimately, the overall development of the country. The interdependence of soil and life is undeniable, as they have evolved in tandem. A profound understanding of soil is crucial for achieving optimal crop production, effective natural resource management, sound climate change mitigation strategies, and robust environmental policy and protection.

In our department, we have a team of passionate, distinguished, and internationally qualified staff members. Additionally, our state-of-the-art laboratories serve as valuable resources for both teaching and research endeavors for the students and staff. Currently, department has following six research focused groups; 1) Saline Agriculture, 2) Soil Microbiology and Biochemistry, 3) Soil Fertility and Plant Nutrition, 4) Soil and Environmental Chemistry, 5) Soil Physics and 6) Climate Change. Department offers both undergraduate [B.Sc. (Hons.) Agriculture – Soil Science, B.Sc. (Hons.) Environmental Science] and postgraduate [M.Sc. (Hons.) Soil Science, M.Sc. (Hons.) Climate Change and Ph.D. Soil Science] Programs.

We roll up our sleeves and get our hands dirty to accomplish great things. Our under and postgraduate programs prepare students to address agricultural, environmental and climate change challenges in Pakistan and around the globe, and our focus is on the sustainable agriculture and food security. We train our graduates to collaborate with stakeholders for effective utilization of acquired knowledge and skills to shape better tomorrow. After graduation, our students serve in Public and Private sectors, research, academia, industry and advisory. We have managed to win 15 competitive grants of worth Rs. 35 million both from national and international funding agencies. We have also signed AOCs/MoUs with Shandong University in China, Fauji Fertilizers Company, Pakistan, Engro Fertilizers, Pakistan, Bulleh Shah Packages and Syngenta Pakistan for joint research ventures.

We have recently launched an outreach program aimed at establishing connections between the local farming community and researchers, with the objective of offering advisory services to farmers directly at their doorstep. Furthermore, we are actively engaged in providing consultancy services to fertilizer and pesticide industries to ensure compliance with ISO/IEC 17025 and 9001 international standards. We also organize seminars, webinars, conferences, and workshops with the aim of disseminating the most up-to-date knowledge and facilitating the exchange of thought-provoking ideas.

DEPARTMENT OF SOIL & ENVIRONMENTAL SCIENCES



DR. TANVEER UL HAQ

Professor & Chairman

Ph.D, Post-Doc

● Expertise:
Saline Agriculture, Plant Stress Physiology

● Email:
tanveer.ulhaq@mnsuam.edu.pk



DR. MUHAMMAD IMRAN

Assistant Professor

Ph.D

● Expertise:
Soil Physics, Solute Movement in Soil

● Email:
m.imran@mnsuam.edu.pk



DR. M. BAQIR HUSSAIN

Assistant Professor

Ph.D

● Expertise:
Soil Microbiology and Biochemistry

● Email:
baqir.hussain@mnsuam.edu.pk



DR. SHAKEEL AHMAD

Assistant Professor

Ph.D

● Expertise:
Soil Fertility and Plant Nutrition

● Email:
shakeel.ahmad@mnsuam.edu.pk



DR. UMAIR RIAZ

Assistant Professor

Ph.D

● Expertise:
Soil and Environmental Chemistry

● Email:
umair.riaz@mnsuam.edu.pk



DR. AHMAD MAHMOOD

Assistant Professor

Ph.D

● Expertise:
Climate Change and Environmental Sciences

● Email:
ahmad.mahmood@mnsuam.edu.pk



DR. WAZIR AHMAD

Lecturer

Ph.D

● Expertise:
Soil Fertility and Plant Nutrition

● Email:
wazir.ahmed@mnsuam.edu.pk



DR. M. USMAN JAMSHAIID

Lecturer

Ph.D

● Expertise:
Soil Microbiology and Biochemistry

● Email:
usman.jamshaid@mnsuam.edu.pk



DR. MUHAMMAD ARIF

Lecturer

Ph.D

● Expertise:
Soil and Environmental Chemistry

● Email:
muhammad.arif@mnsuam.edu.pk



Scheme of Studies

B.Sc. (Hons.) Agriculture

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
SES-301	Introduction to Environmental Science	2(2-0)	FC
AEE-301	Introduction to Agri. Extension	3(2-1)	FC
AH-302	Introduction to Animal Husbandry	3(2-1)	FC
AGRON-301	Basic Agriculture	2(1-1)	Comp
AGRON-303	Field Crop Production	2(1-1)	Comp
AGRON-304	Weed Control Methods (For the students of Intermediate Pre-Agriculture)	2(1-1)	Comp
CS-301	Computer Science and Information Technology	2(0-2)	Comp
MATH-301/ BIO-301	Elementary Mathematics (<i>for Pre-Medical</i>)/ Essentials of Biology (<i>for Pre-Engineering</i>)	3(3-0) 3(2-1)	Comp
ENG-301	Composition and Communication Skills	3(3-0)	Comp
UAM-301	Social and Religious Tolerance	2(2-0)	Audit
QS-301	Holy Quran with Translation (Part II)	1(1-0)	Audit
	Total	20	

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
AGRON-302	Principles of Agronomy	3(2-1)	FC
HORT-302	Introductory Horticulture	3(2-1)	FC
ENT-302	Introductory Entomology	3(2-1)	FC
SST-302	Fundamental of Seed Science and Technology	3(2-1)	Comp
ID-304	Irrigation and Drainage Practices	2(1-1)	Comp
SSH-302	Pakistan Studies	2(2-0)	Comp
STAT-302	Introductory Statistics	2(2-0)	Comp
UAM-302	Citizenship Education and Community Engagement	3(2-1)	Audit
QS-301	Holy Quran with Translation (Part II)	1(1-0)	Audit
	Total	18	

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
BIOTECH-401	Introduction to Biotechnology and Molecular Genetics	3(2-1)	FC
RS-409	Rural Sociology and Development	2(2-0)	Comp
VMD-401	Introduction to Veterinary Preventive Medicine	2(1-1)	Comp
AE-401	Principles of Agricultural & Resource Economics	3 (3-0)	FC
FRW-401	Agro-Forestry, Range and Wildlife Management	3(2-1)	FC
FMP-405	Farm Mechanization	2(1-1)	Comp
MB-401	Basic Microbiology	3(2-1)	FC
MAB-401	Fundamentals of Agribusiness and Marketing	2(2-0)	FC
QS-301	Holy Quran with Translation (Part III)	1(1-0)	Audit
	Total	20	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
PBG-402	Introductory Plant Breeding	3(2-1)	FC
PP-402	Introductory Plant Pathology	3(2-1)	FC
FST-402	Essentials of Food Science and Technology	3(2-1)	FC
IS-401/ SSH-402	Islamic Studies OR Ethics (for Foreigners / Non-Muslims)	3(3-0)	Comp
SES-401	Introduction to Soil Science	3(2-1)	FC
		15	
QS-301	Holy Quran with Translation (Part IV)	1(1-0)	Audit
	Elective courses (2)	5	
	Total	20	



Scheme of Studies

B.Sc. (Hons.) Agriculture

(Semester IV)

LIST OF ELECTIVE COURSES IN SEMESTER

(A student will opt any 2 courses for 5 credit hours but minimum of 20 students will be required to offer a course)

Course Code	Course Title	Credit Hours	Department/Institute
AGRON-404	Introduction to Weed Science	3(2-1)	Agronomy
AGRON-406	Introduction to Seed Science	2(2-0)	Agronomy
BIOTECH-402	Introduction to Biotechnology and Bioinformatics	3(2-1)	Plant Breeding and Biotechnology
SST-402	Basics of Seed Production	3(2-1)	Plant Breeding and Biotechnology
PBG-404	Anatomy of Flower	3(2-1)	Plant Breeding and Biotechnology
FST-408	Food Quality Management	2(2-0)	Food Science and Technology
FST-412	Poultry and Egg Processing	3(2-1)	Food Science and Technology
HORT-404	Peri-Urban Horticulture	2(1-1)	Horticulture
HORT-406	Environmental Horticulture	3(2-1)	Horticulture
SES-402	Soil, Water and Air Pollution	2(2-0)	Soil and Environmental Sciences
SES-406	Carbon Sequestration and Environment	3(2-1)	Soil and Environmental Sciences
PP-404	Introduction to Plant Pathogens	2(1-1)	Plant Pathology
PP-408	Fundamentals of Plant Pathology	3(2-1)	Plant Pathology
ENT-402	General Plant Protection	2(1-1)	Entomology
ENT-404	Apiculture and Sericulture	3(2-1)	Entomology
AE-402	Economy of Pakistan	3(3-0)	Agribusiness and Applied Economics
AE-404	Resource and Environmental issues of Agrarian Economy	3(3-0)	Agribusiness and Applied Economics



Scheme of Studies

B.Sc. (Hons.) Major Plant Breeding And Genetics

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PBG-501	Principles of Genetics	3(2-1)	Major
PBG-503	Breeding Field Crops	3(2-1)	Major
PBG-505	Cytogenetics	3(2-1)	Major
PBG-507	Germplasm Resources of Field Crops	3(3-0)	Major
PBG-509	Experimentation in Plant Breeding	3(2-1)	Major
Sub-Total Credit Hours		15	
PBG-511	Breeding for Plant Quality Traits	3(2-1)	Elective
PBG-513	Hybrid Seed Production Technology	3(2-1)	Elective
PBG-515	Heteroploidy and Apomixis in Crop Breeding	2(1-1)	Elective
PBG-517	Mutation Breeding in Crop Plants	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PBG-502	Breeding Climate Smart Crops	3(2-1)	Major
PBG-504	Modern Concepts in Plant Breeding	3(2-1)	Major
PBG-506	Genetics and Breeding of Fibre Crops	3(2-1)	Major
PBG-508	Genetics and Breeding of Oilseed Crops	3(2-1)	Major
PBG-510	Genetics and Breeding of Vegetable Crops	3(2-1)	Major
Sub-Total Credit Hours		15	
PBG-512	Genetics and Breeding of High-value (Minor and Medicinal) Crops	3(2-1)	Elective
PBG-514	Genetics and Breeding of Sugar Crops	3(2-1)	Elective
PBG-516	Outreach in Plant Breeding	2(1-1)	Elective
PBG-518	IPR and Variety Development	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PBG-601	Genetics and Breeding of Cereal Crops	3(2-1)	Major
PBG-603	Genetics and Breeding of Pulse Crops	3(2-1)	Major
PBG-605	Genetics and Breeding of Fodder and Forage Crops	3(2-1)	Major
PBG-607	Bioinformatics in Plant Breeding	3(2-1)	Major
PBG-609	Quantitative Genetics and Biometry	4(3-1)	Major
PBG-611	Preparation of Research Project and Scientific Writing	2(1-1)	Major
Sub-Total Credit Hours		18	
PBG-613	Bio-Safety Measures in GM Crops	2(1-1)	Elective
PBG-615	Plant Genomics	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
PBG-612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Seed Science And Technology

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SST-501	Principles of Seed Science	3(2-1)	Major
SST-503	Physiology of Seed Development	3(2-1)	Major
SST-505	Seed Production in Various Crops	3(2-1)	Major
SST-507	Seed Health and Vigour	3(2-1)	Major
PBG-513	Hybrid Seed Production Technology	3(2-1)	Supporting
Sub-Total Credit Hours		15	
SST-509	Seed Production of Transgenic Crops	3(2-1)	Elective
PBG-509	Experimentation in Plant Breeding	3(2-1)	Elective
PBG-517	Mutation Breeding in Crop Plants	2(1-1)	Elective
SES-517	Soil Fertility Evaluation	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SST-502	Principles of Seed Technology	3(2-1)	Major
SST-504	Seed Germination and Dormancy	3(2-1)	Major
SST-506	Seed Certification and Registration	2(1-1)	Major
PBG-518	IPR and Variety Development	2(1-1)	Supporting
FMP-510	Seed Processing Industries & their maintenance	3(2-1)	Supporting
MAB-516	Seed Trade Policies and Regulations	2(1-1)	Supporting
Sub-Total Credit Hours		15	
Agron-502	Seed Science and Technology	3(2-1)	Elective
ENT-508	Stored Products Pests & their Management	3(2-1)	Elective
SST-510	Biological Potential of Various Crops	2(1-1)	Elective
SES-508	Nutrient Management in Degraded Soils	3(2-1)	Elective
Total Credit Hours		20	

SEMESTER-VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SST-601	Seed Testing	3(1-2)	Major
SST-603	Seed Storage	3(2-1)	Major
HORT-607	Propagation and Nursery Management.	4(2-2)	Major
SST-611	Preparation of Research Project and Scientific Writing	2(1-1)	Major
PP-601	Plant Disease Management	3(2-1)	Supporting
MAB-615	Seed Marketing and Logistics	3(2-1)	Supporting
Sub-Total Credit Hours		18	
SST-605	Seed Enhancement	2(1-1)	Elective
PBG-613	Bio-Safety Measures in GM Crops	2(1-1)	Elective
HORT-617	Vegetable and Flower Seed Production	2(1-1)	Elective
ENT-615	Postharvest Protection of Cereals	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
SST-612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Biotechnology

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
Biotech-501	Principles of Biotechnology	3 (2-1)	Major
Biotech-503	Introduction to Biosafety	3 (2-1)	Major
Biotech-505	Molecular Cell Biology	3 (2-1)	Major
Biotech-507	Modern Concepts in Biotechnology	3 (2-1)	Major
Biotech-509	Introduction to Bioinformatics and Functional Genomics	3 (2-1)	Major
Sub-Total Credit Hours		15	
AGRON-505	Field Crop Physiology	3 (2-1)	Elective
SST-509	Seed Production of Transgenic Crops	3 (2-1)	Elective
PBG-505	Cytogenetics	3 (2-1)	Elective
Biotech-511	Molecular Virology	2(1-1)	Elective
Biotech-513	Biophysics and Computational Biology	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
Biotech-502	Genomics and Proteomics	3(2-1)	Major
Biotech-504	Epigenetics	3(2-1)	Major
Biotech-506	Plant Transformation	4(3-1)	Major
Biotech-508	Principles of Plant Molecular Physiology	3 (2-1)	Major
Biotech-510	Nanobiotechnology	2 (1-1)	Major
Sub-Total Credit Hours		15	
Biochem-502	Fundamental Biochemistry	3 (2-1)	Elective
PBG-504	Modern Concepts in Plant Breeding	3 (2-1)	Elective
ENT-516	Introduction to Insect Molecular Genetics	2 (1-1)	Elective
PP-518	Biotechnology and its applications in Plant Pathology	2 (1-1)	Elective
Total Credit Hours		20	

SEMESTER-VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
Biotech-601	Agricultural Biotechnology	4 (3-1)	Major
Biotech-603	Genome Editing and its Applications	3 (2-1)	Major
Biotech-605	Fundamentals of Seed Molecular Biology	3 (2-1)	Major
FST-621	Food Biotechnology	3 (2-1)	Major
Biotech-611	Preparation of Research Project and Scientific Writing	2 (1-1)	Major
Biotech-613	Biotechnology Entrepreneurship	3 (2-1)	Major
Sub-Total Credit Hours		18	
PBG-613	Bio-Safety Measures in GM Crops	2 (1-1)	Elective
Biotech-615	Industrial Biotechnology	2(1-1)	Elective
Biotech-617	Animal Biotechnology	2 (1-1)	Elective
Total Credit Hours		20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
Biotech -612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Entomology

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENT-501	Insect Morphology	3(2-1)	Major
ENT-503	Principles of Insect Taxonomy	3(2-1)	Major
ENT-505	Insect Ecology	3(2-1)	Major
ENT-507	Insect Pests of Household, Human & Animals	3(2-1)	Major
ENT-509	Insect Behavior	3(2-1)	Major
Sub-Total Credit Hours		15	
ENT-511	Vertebrate Pests and their Management	3(2-1)	Elective
ENT-513	Pest Management and Phytosanitary Measures	3(2-1)	Elective
ENT-515	Insect Biodiversity Management	2(1-1)	Elective
ENT-517	Entomological History and Literature	2(1-1)	Elective
Total Credit Hours		15+5=20	

SEMESTER-VI (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENT-502	Insect Physiology	3(2-1)	Major
ENT-504	Insect Classification and Biodiversity	3(2-1)	Major
ENT-506	Agricultural Pests and Their Management	4(3-1)	Major
ENT-508	Stored Products Pests & their Management	3(2-1)	Major
ENT-510	Beneficial Insects	3(2-1)	Major
ENT-512	Biological Control of Insect Pests	3(2-1)	Major
Sub-Total Credit Hours		19	
ENT-514	Introduction to Insect Molecular Genetics	2(1-1)	Elective
ENT-516	Arachnid Pests and Their Management	2(1-1)	Elective
Total Credit Hours		19+2=21	

SEMESTER-VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENT-601	Integrated Pest Management	4(3-1)	Major
ENT-603	Plant Resistance to Insect Pests	2(1-1)	Major
ENT-605	Insecticides and their Application	3(2-1)	Major
ENT-607	Range and Forest Entomology	3(2-1)	Major
ENT-609	Agriculture and Environmental Pollution	3(2-1)	Major
ENT-611	Preparation of Research Project and Scientific Writing	3(2-1)	Major
ENT-613	Apiculture	3(2-1)	Major
Sub-Total Credit Hours		20	
PP-601	Plant Disease Management	3(2-1)	Compulsory
Sub-Total Credit Hours		3	
ENT-615	Post-Harvest Protection of Cereals	2(1-1)	Elective
ENT-617	Agricultural Pesticide Legislation	2(2-0)	Elective
Total Credit Hours		(20+3+2)=25	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
ENT-612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Plant Pathology

(Semester V-VIII)

SEMESTER-V (Students will opt for 6 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PP-501	Introductory Mycology	3(2-1)	Major
PP-503	Introduction to Plant Parasitic Nematodes	3(2-1)	Major
PP-505	Introduction to Plant Prokaryotes	3(2-1)	Major
PP-507	Introduction to Plant Viruses	3(2-1)	Major
PP-509	Abiotic Diseases of Plants	3(2-1)	Major
Sub-Total Credit Hours		15	
PP-511	Beneficial Microorganisms for sustainable Agriculture	3(2-1)	Elective
PP-513	Soil-Borne Plant Pathogens	3(2-1)	Elective
Total Credit Hours		15+6=21	

SEMESTER-VI (Students will opt for 6 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PP-504	Diseases of Field Crops	3(2-1)	Major
PP-506	Diseases of Fruits and Ornamentals	3(2-1)	Major
PP-508	Pesticides, their Action and Application	3(2-1)	Major
PP-510	Plant Disease Epidemiology	3(2-1)	Major
ENT-506	Agriculture pests and their management	3(2-1)	Major
Sub-Total Credit Hours		15	
PP-512	Biology and Cultivation of Edible Fungi	3(2-1)	Elective
PP-514	Diseases of Vegetable Crops	3(2-1)	Elective
PP-516	Histopathology of Diseased Plants	3(2-1)	Elective
PP-518	Biotechnology and its Application in Plant Pathology	3(2-1)	Elective
Total Credit Hours		15 + 6 = 21	

SEMESTER-VII (Students will opt for 3 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
PP-601	Plant Disease Management	3(2-1)	Major
PP-603	Methods and Techniques in Plant Pathology	3(1-2)	Major
PP-605	Seed and Postharvest Pathology	3(2-1)	Major
PP-607	Plant Resistance to Diseases	3(2-1)	Major
PP-609	Introductory Molecular Plant Pathology	3(2-1)	Major
PP-611	Preparation of Research Projects and Scientific Writing	2(1-1)	Major
Sub-Total Credit Hours		17	
PP-613	Introductory Range and Forest Pathology	3(2-1)	Elective
PP-615	Plant Quarantine and SPS Measures	3(2-1)	Elective
Total Credit Hours		(17+3)=20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
PP-612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Agronomy

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course No.	Course Title	Credit Hours	Course Type
AGRON-501	Agro-Ecology	3(2-1)	Major
AGRON-503	Irrigation Agronomy	3(2-1)	Major
AGRON-505	Field Crop Physiology	3(2-1)	Major
AGRON-507	Principles of Weed Management	3(2-1)	Major
AGRON-509	Sustainable Agriculture and Organic Farming	3(2-1)	Major
Sub-Total Credit Hours		15	
AGRON-511	Global Agriculture	3(3-0)	Elective
AGRON-513	Fodders and Forages	2(1-1)	Elective
AGRON-515	Crop Management under Stressful Environments	3(2-1)	Elective
AGRON-517	Water Relations of Crop Plants	2(1-1)	Elective
AGRON-519	Outreach in Agronomy-I	3(2-1)	Elective
FME-503	Fundamentals of Precision Agriculture	2(2-0)	Elective
Total Credit Hours		(15+5)= 20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course No.	Course Title	Credit Hours	Course Type
AGRON-502	Seed Production Technology	3(2-1)	Major
AGRON-504	Arid and Rainfed Agriculture	3(2-1)	Major
AGRON-506	Agro-technology of Major Field Crops	3(2-1)	Major
AGRON-508	Plant Nutrients and Growth Regulators	3(2-1)	Major
BIOCHEM-502	Fundamental Bio-chemistry	3(2-1)	Supporting
Sub-Total Credit Hours		15	
AGRON-510	Crop Growth Modeling and its Application in Agriculture	3(2-1)	Elective
AGRON-512	Eco-Physiological Aspects of Weeds	3(2-1)	Elective
AGRON-514	Layout of Field Experiments	2(0-2)	Elective
AGRON-516	Agro-technology of Special Crops	2(1-1)	Elective
AGRON-518	Outreach in Agronomy-II	3(2-1)	Elective
Total Credit Hours		(15+5)= 20	

SEMESTER-VII (Students will opt for 3 credit hours from elective courses)

Course No.	Course Title	Credit Hours	Course Type
AGRON-601	Medicinal and Special Crops	3(2-1)	Major
AGRON-603	Biological Crop Potential	3(2-1)	Major
AGRON-605	Conservation Agronomy	3(2-1)	Major
AGRON-607	Environment and Crop Production	3(2-1)	Major
AGRON-611	Preparation of Research Project and Scientific Writing	2(1-1)	Major
AGRON-615	Farming Systems and Record Management	3(2-1)	Major
Sub-Total credit hours		17	
AGRON-609	Application of Allelopathy in Agriculture	3(2-1)	Elective
AGRON-613	Plant and Soil Analysis	3(2-1)	Elective
AGRON-617	Spate Irrigated Agriculture	3(2-1)	Elective
AGRON-619	Digital Agriculture	3(2-1)	Elective
Total Credit Hours		17+3=20	

SEMESTER-VIII

Course No.	Course Title	Credit Hours	Course Type
AGRON-612	Internship and External Evaluation	6 (0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Major Horticulture

(Semester V-VIII)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
HORT-501	Principles of Fruit Production	4(3-1)	Major
HORT-503	Principles of Vegetable Production	3(2-1)	Major
HORT-505	Principles of Ornamental Crop Production	3(2-1)	Major
HORT-507	Medicinal and Aromatic Plants	2(1-1)	Major
Biochem-502	Fundamental Biochemistry	3(2-1)	Supporting
Sub-Total Credit Hours		15	
HORT-509	Nutrient Management of Horticultural Crops	3(1-2)	Elective
HORT-511	Protected Horticulture	3(1-2)	Elective
HORT-513	Indoor Plant Culture and Scaping	2(1-1)	Elective
HORT-515	Outreach in Horticulture-I	2(1-1)	Elective
Total Credit Hours		20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
HORT-502	Tropical and Sub-Tropical Fruits	4(3-1)	Major
HORT-504	Summer Vegetables	3(2-1)	Major
HORT-506	Landscape Horticulture	3(2-1)	Major
HORT-508	<i>In Vitro</i> Propagation	2(1-1)	Major
HORT-607	Propagation and Nursery Management	3(2-1)	Major
Sub-Total credit hours		15	
HORT-512	Minor Fruit Crops	3(2-1)	Elective
HORT-514	Organic Horticulture Production and certification	3(2-1)	Elective
HORT-516	Good Agricultural Practices in Horticulture	2(1-1)	Elective
HORT-518	Business Management in Horticulture	2(1-1)	Elective
HORT-520	Outreach in Horticulture-II	2(1-1)	Elective
Total credit hours		20	

SEMESTER-VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
HORT-603	Breeding of Horticultural Crops	3(2-1)	Major
HORT-605	Research Methods in Horticulture	3(2-1)	Major
HORT-607	Winter Vegetables	3(2-1)	Major
HORT-609	Commercial Flower Production	3(2-1)	Major
HORT-611	Preparation of Research Projects and Scientific Writing	2(1-1)	Major
HORT-613	Post-Harvest Horticulture	4(3-1)	Major
Total credit hours		18	
HORT-615	Temperate Fruits	2(1-1)	Elective
HORT-617	Vegetable and Flower Seed production	2(1-1)	Elective
HORT-619	Food Safety in Horticultural Crops	2(1-1)	Elective
Total credit hours		20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
HORT-612	Internship and External Evaluation	6(0-6)	Major
Total credit hours		6	



Scheme of Studies

B.Sc. (Hons.) Major Soil Science

(Semester I-IV)

SEMESTER-V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SES-501	Physical Properties of Soils	3(2-1)	Major
SES-503	Chemical Properties of Soils	3(2-1)	Major
SES-505	Soil Genesis and Morphology	3(2-1)	Major
SES-507	Instrumentation and Laboratory Techniques	3(1-2)	Major
SES-509	Applied Mathematics for Soil Science	3(3-0)	Major
Sub-Total Credit Hours		15	
SES-511	Plant Growth under Stress Environment	3(2-1)	Elective
SES-513	Microbial Ecology and Plant Growth	3(3-0)	Elective
SES-515	Municipal Wastes and its Transformations	2(2-0)	Elective
SES-517	Soil Fertility Evaluation	2(1-1)	Elective
Total credit hours		15+5=20	

SEMESTER-VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SES-502	Salt-Affected Soils and Water Quality	3(2-1)	Major
SES-504	Soil Fertility and Fertilizer Use	3(2-1)	Major
SES-506	Soil Survey and Land Evaluation	3(2-1)	Major
SES-508	Nutrient Management in Degraded Soils	3(2-1)	Major
Chem-502	Environmental Chemistry and Bio-chemistry	3(2-1)	Supporting
Sub-Total credit hours		15	
SES-510	Soil – Water – Plant Relationships	3(3-0)	Elective
SES-512	Soil Chemistry and Plant Growth	3(3-0)	Elective
SES-514	GIS in Soil Survey and Land Use Planning	2(1-1)	Elective
SES-516	Outreach in Soil Science	2(1-1)	Elective
Total credit hours		15+5=20	

SEMESTER-VII (Students will opt for 3 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
SES-601	Soil Microbiology and Environment	3(2-1)	Major
SES-603	Environment Pollution and Management	3(3-0)	Major
SES-605	Soil, Water and Environment Conservation	3(3-0)	Major
SES-609	Elements of Soil Physics	3(3-0)	Major
SES-611	Preparation of Research Proposal and Scientific Writing	2(1-1)	Major
Stat-601	Applied Statistics for Soil and Environment	3(2-1)	Supporting
Total credit hours		17	
SES-607	Saline Agriculture	3(2-1)	Elective
SES-613	Experimental Planning	3(2-1)	Elective
Total credit hours		17+3=20	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
SES-612	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Environmental Science

(Semester I-IV)

SEMESTER – I

Course Code	Course Title	Credit Hours	Course Type
ENV-303	Introduction to Earth Sciences	3 (2-1)	Foundation
SES-301	Introduction to Environmental Science	2 (2-0)	Foundation
BIO-301	Essentials of Biology	3 (2-1)	General
IS-301/SSH-301	Islamic Studies (for Muslims)/ Ethics (for Non-Muslims)	3 (3-0)	Compulsory
ENG-301	Composition and Communication Skills	3 (3-0)	Compulsory
MATH-301	Elementary Mathematics	3 (2-1)	Compulsory
CS-301	Computer Science and Information Technology	2 (0-2)	Compulsory
UAM-301	Social and Religious Tolerance	3 (2-1)	Audit
QS-302	Quranic Studies	1 (1-0)	Audit
Total Credit Hours		14+5=19	

SEMESTER – II

Course Code	Course Title	Credit Hours	Course Type
ENV-302	Basic Chemistry	3 (2-1)	General
ENV-304	Biology for Environmental Studies	3 (2-1)	General
AIEH-222	Professional Ethics	2 (2-0)	General
STAT-302	Introductory Statistics	2 (2-0)	Compulsory
SSH-302	Pakistan Studies	2 (2-0)	Compulsory
ECON-309	Principles of Economics	3 (3-0)	General
ENG -310	Functional English	3 (3-0)	Compulsory
UAM-302	Citizenship Education and Community Engagement	3 (2-1)	Audit
Total Credit Hours		16+2=18	

SEMESTER – III

Course Code	Course Title	Credit Hours	Course Type
ENV-403	Environmental Chemistry	3 (2-1)	Foundation
ENV-405	Environmental Physics	3 (2-1)	Foundation
ENV-407	Fundamentals of Ecology	3 (3-0)	Foundation
ENV-409	Environmental Pollution	3 (2-1)	Foundation
RS-409	Rural Sociology and Development	2 (2-0)	General
BBAA-412	Social Psychology and Self-Development	3(3-0)	Compulsory
QS-302	Quranic Studies	1 (1-0)	Audit
Total Credit Hours		14+3=17	

SEMESTER – IV

Course Code	Course Title	Credit Hours	Course Type
ENV-404	Environmental Microbiology	3 (2-1)	Foundation
ENV-408	Research Methods in Environmental Science	3 (2-1)	Foundation
ENV-410	Climatology	3(2-1)	Foundation
ENV-412	GIS and Remote Sensing	3(2-1)	Major
SES-406	Carbon Sequestration and Environment	3 (2-1)	Major
AIEH-212	Human Resource Management	2 (2-0)	General
ECON-418	Environmental Economics	3(3-0)	General
Total Credit Hours		15+5=20	



Scheme of Studies

B.Sc. (Hons.) Environmental Science

(Semester V-VIII)

SEMESTER – V (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENV-519	Applied Ecology	3 (3-0)	Major
ENV-521	Environmental Toxicology	3 (2-1)	Major
ENV-523	Environmental Profile of Pakistan	3 (3-0)	Foundation
ENV-525	Population and Environment	3 (2-1)	Foundation
ENV-527	Analytical Techniques in Environmental Science	3 (1-2)	Foundation
QS-302	Quranic Studies	1 (1-0)	Audit
	Sub-Total Credit Hours	15	
ENV-529	Solid Waste Management	2(2-0)	Elective
ENV-531	Soil and Environment	2 (2-0)	Elective
SES-511	Plant Growth under Stress Environment	3(2-1)	Elective
SES-513	Microbial Ecology and Plant Growth	3(3-0)	Elective
VET-501	Animal Health and Environment	3 (2-1)	Elective
	Total Credit Hours	15+5=20	

SEMESTER – VI (Students will opt for 5 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENV-520	Environmental Management Systems	3(2-1)	Major
ENV-522	Biodiversity and Conservation	3(2-1)	Major
ENV-524	Environmental Monitoring	3(2-1)	Major
ENV-526	Introduction to Climate Change	3(2-1)	Major
ENV-528	Environmental Impact Assessment	3(2-1)	Major
	Sub-Total Credit Hours	15	
ENV-530	Water Resources Management	3(2-1)	Elective
ENV-532	Pollutants Movement in Soil	2 (2-0)	Elective
ENT-609	Agriculture and Environmental Pollution	3(2-1)	Elective
AE-514	Project Management and Evaluation	2(2-0)	Elective
AIET-3113	Environmental Management System for Industry	3(2-1)	Elective
	Total Credit Hours	15+5=20	

SEMESTER – VII (Students will opt for 2 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
ENV-615	Environmental Governance	3 (3-0)	Major
ENV-617	Public Health and Environment	3 (3-0)	Major
ENV-619	Pollution Control Technologies	3 (2-1)	Major
ENV-621	Natural Resources Management	3 (3-0)	Major
SES-611	Preparation of Research Proposal and Scientific Writing	2 (1-1)	Compulsory
QS-302	Quranic Studies	1 (1-0)	Audit
	Sub-Total Credit Hours	15	
ENV-625	Environmental Biotechnology	2(2-0)	Elective
AE-613	Economics of Climate Change	2(2-0)	Elective
	Total Credit Hours	15+2=17	

SEMESTER – VIII

Course Code	Course Title	Credit Hours	Course Type
ENV-612	Internship and External Evaluation	6(0-6)	Major
	Total Credit Hours	6(0-6)	



Faculty of Food and Home Sciences





Coordinator's Message

Welcome to the Faculty of Food and Home Sciences! I am delighted to express my views that you are going to join a fast growing faculty where commitment, adherence to the standards of academic excellence is among the top core values. For the last many years; our degree programs have been the leading choices of the students. We offer an enriched and comprehensive education in the fields of food, nutrition and home sciences and believe in the power of knowledge and its transformative impact on individuals and society.

Our dedicated faculty members are experts in their respective fields and are committed to providing you with a world-class education that will equip you with the skills and expertise needed to excel in your chosen career path.

As you embark on your academic journey with us, you will have the opportunity to explore a wide range of subjects within the fascinating domains of food, nutrition and home sciences. In nutritional sciences, we have unique shared program and activities with Nishtar Medical University of Multan which reflects a dynamic approach of the institutions.

We believe in fostering a collaborative and inclusive learning environment, where students are encouraged to ask questions, engage in critical thinking, and actively participate in hands-on experiences. Our state-of-the-art facilities and well-equipped laboratories provide the perfect platform for you to apply your knowledge and gain practical skills.

Furthermore, our faculty maintains strong ties with industry leaders, professional organizations, and research institutions, ensuring that our curriculum remains relevant and up-to-date. Through internships, field visits, and guest lectures from industry experts, you will have the opportunity to connect theory with real-world practice, preparing you for a successful career upon graduation.

Moreover, we value the personal and professional development of our students. Alongside academic excellence, we offer various extracurricular activities, clubs, and student organizations that provide a platform for you to explore your interests, develop leadership skills, and build lifelong friendships.

Whether you aspire to become a nutritionist, a food scientist, an interior designer, or a family counselor, the Faculty of Food and Home Sciences is committed in supporting your ambitions and helping you to achieve your goals. We take pride in nurturing well-rounded individuals who are not only academically accomplished but also socially responsible, compassionate, and equipped to make a positive difference in the world.

Prof. Dr. Umar Farooq

Coordinator, FF&HS



Welcome to the Faculty of Food and Home Sciences!



Faculty of Food and Home Sciences was first established during the year 2016 as Department of Food Science and Technology upgraded as Faculty in the year 2023. At the Faculty of Food and Home Sciences, we are committed to advancing knowledge and innovation in the fields of food science, nutrition, and home sciences. Our 11 dedicated permanent faculty members, 10 visiting faculty members and students from three well defined departments work collaboratively to address pressing challenges related to food production, nutrition, health, and the sustainable management of households

With the recent upgrade from the Department of Food Science and Technology, we have expanded our focus to include a broader range of interdisciplinary areas related to food, nutrition, and the home environment. This transformation reflects our commitment to staying at the forefront of cutting-edge research and education in these critical domains.

Our faculty comprises distinguished experts who bring a wealth of experience and expertise to the table. They are at the forefront of research, exploring novel approaches to enhance food safety, develop innovative food processing techniques, optimize nutritional content, and promote healthy lifestyles. Our faculty members are actively engaged in collaborations with industry partners, government agencies, and international organizations, ensuring that our research has real-world impact and relevance.

Beyond the classroom, the Faculty of Food and Home Sciences offers a vibrant and inclusive community. We encourage students to participate in various student organizations, clubs, and events that foster networking, leadership development, and a sense of belonging. Our faculty and staff are dedicated to providing a supportive and nurturing environment, fostering a culture of academic excellence and personal well-being.

We invite you to explore our website to learn more about the Faculty of Food and Home Sciences, our programs, faculty members, research initiatives, and student opportunities. Join us in shaping the future of food, nutrition, and home sciences through innovation, collaboration, and transformative education.

Welcome to the Faculty of Food and Home Sciences – where knowledge, health, and sustainability meet. Faculty of Food and Home Sciences has comprised of following three departments

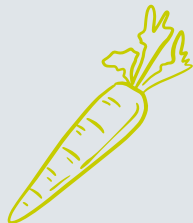
1. **Department of Food Science and Technology**
2. **Department of Human Nutrition and Dietetics**
3. **Department of Home Sciences**

Programs being offered at Main Campus

Following Undergraduate and Postgraduate degree programs are being offered at Main Campus.

Undergraduate Programs

1. **B.Sc. (Hons.) Agri. (Major Food Science and Technology)**
2. **B.Sc. (Hons.) Human Nutrition and Dietetics**
3. **B.Sc. (Hons.) Home Economics**



Faculty of Food and Home Sciences



Prof. DR. UMAR FAROOQ
Coordinator FFHS/ Chairperson, HND **Ph.D**

● Expertise:
Food Technology, Microbiology, Biotechnology

● Email:
umer.farooq@mnsuam.edu.pk



DR. MUHAMMAD SHAHBAZ
Associate Professor / Chairperson, FST **Ph.D**

● Expertise:
Food Microbiology and Safety, Nutraceuticals
and Functional Foods

● Email:
shahbaz.ft@mnsuam.edu.pk



DR. AMBREEN NAZ
Associate Professor / Chairperson, Home Sciences **Ph.D**

● Expertise:
Functional Foods, Nutraceuticals,
Food Chemistry, Advanced Nutrition

● Email:
ambreen.naz@mnsuam.edu.pk



DR. SHAMAS MURTAZA
Associate Professor/Ex-Pakistan Leave **Ph.D**

● Expertise:
Dairy Technology

● Email:
shamas.murtaza@mnsuam.edu.pk



DR. SHABBIR AHMAD
Assistant Professor **Ph.D**

● Expertise:
Food Chemistry, Cereal Technology, Dairy Technology

● Email:
amar.matloob@mnsuam.edu.pk



DR. NIGHTAT RAZA
Assistant Professor **Ph.D**

● Expertise:
Dairy Microbiology, Community Nutrition,
Functional Foods

● Email:
nightat.raza@mnsuam.edu.pk



DR. AFSHAN SHAFI
Assistant Professor **Ph.D**

● Expertise:
Food Technology, Microbiology,
Food Quality and Safety

● Email:
khurram.mubeen@mnsuam.edu.pk



DR. M. SIBT-E-ABBAS
Assistant Professor **Ph.D**

● Expertise:
Food Science, Nutrition

● Email:
sibt.e.abbas@mnsuam.edu.pk



DR. NIDA FIRDOUS
Assistant Professor **Ph.D**

● Expertise:
Food Science, Post-Harvest Preservation,
Nutraceuticals

● Email:
nida.firdous@mnsuam.edu.pk



MR. MUHAMMAD USMAN
Lecturer **M.Sc. (Hons.)**

● Expertise:
Human Nutrition and dietetics

● Email:
muhammad.usman@mnsuam.edu.pk



MS. UMRAH ZAFAR
Lecturer

M.Sc. (Hons.)

● Expertise:
Human Nutrition and Dietetics

● Email:
umrah.zafar@mnsuam.edu.pk





Scheme of Studies

B.Sc. (Hons.) Agriculture

Major Food Science
& Technology

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
FST-501	Principles of Human Nutrition	3(3-0)	Major
FST-503	Food Microbiology	3(2-1)	Major
FST-505	Fruit and Vegetable Processing	3(2-1)	Major
FST-507	Dairy Technology	3(2-1)	Major
FST-509	Cereal Technology	3(2-1)	Major
FST-511	Food Analysis and Sensory Evaluation	3(2-1)	Major
FST-513	Beverage Technology	2(2-0)	Major
Total Credit Hours		20	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
FST-502	Food Chemistry	3(3-0)	Major
FST-504	Unit Operations in Food Processing	3(2-1)	Major
FST-506	Meat Technology	3(2-1)	Major
FST-508	Technology of Oils and Fats	3(2-1)	Major
FST-510	Food Toxicology & Safety	3(3-0)	Major
FST-512	Extrusion Technology and Snack Food	3(2-1)	Major
FST-514	Sugar Technology and Confectionary	2(2-0)	Major
Total Credit Hours		20	

SEMESTER-VII (Students will opt for 12 credit hours from elective courses)

Course Code	Course Title	Credit Hours	Course Type
FST-601	Instrumental Techniques in Food Analysis	3(1-2)	Major
FST-603	Food Safety and Quality Management	3(3-0)	Major
FST-611	Research Projects and Scientific Writing	2(1-1)	Major
Total Credit Hours		08	
FST-605	Outreach in Food Science and Technology	3(2-1)	Elective
FST-607	Food Laws and Regulations	3(3-0)	Elective
FST-609	Food Packaging	3(3-0)	Elective
FST-613	Food Product Development	3(1-2)	Elective
FST-615	Bakery Products Technology	3(2-1)	Elective
FST-617	Food Plant Layout	3(3-0)	Elective
FST-619	Food Process Engineering	3(3-0)	Elective
FST-621	Food Biotechnology	3(2-1)	Elective
Total Credit Hours		8 + 12 = 20	
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
FST-602	Internship and External Evaluation	6(0-6)	Major



Scheme of Studies

B.Sc. (Hons.) Human Nutrition & Dietetics

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
ENG -301	Composition and Communication Skills	3(3-0)	Compulsory
CS-301	Computer Science and Information Technology	2(0-2)	Fundamental
HND-301	Micronutrients in Human Nutrition	3(3-0)	Fundamental
HND-303	Assessment of Nutritional Status	3(2-1)	Major
HND-305	Macronutrients in Human Nutrition	3(3-0)	Fundamental
HND-307	Metabolism of Nutrients	2(2-0)	Major
PHYSIO-301	Human Physiology-I	3(2-1)	Fundamental
Total Credit Hours		19(15-4)	

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
SSH-302	Pakistan Studies	2(2-0)	Compulsory
STAT-302	Introductory Statistics	2(2-0)	Compulsory
SOC-302	Fundamentals of Sociology/Behavior	3(3-0)	General
BIOCHEM-302	Clinical Biochemistry	3(1-2)	General
PHYSIO-302	Human Physiology-II	3(2-1)	Fundamental
HND-302	Public Health Nutrition	3(2-1)	Major
HND-304	Nutritional Deficiency Disorders	3(3-0)	Major
UAM-301	Social and Religious Tolerance	2(2-0)	Audit
Total Credit Hours		19(15-4)	
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
IS-401/SSH-402	Islamic Studies/Ethics (for Foreigners / Non-Muslims)	3(3-0)	Compulsory
BIOTECH-401	Basics of Molecular Biology and Biotechnology	2(2-0)	General
FST-419	Food Laws and Regulations	3(3-0)	Major
ANAT-401	Human Anatomy	3(2-1)	Fundamental
PHARM-401	Pharmacology-I	3(3-0)	Major
HND-401	Nutrition and Psychology/Behavior	3(3-0)	Major
HND-403	Preventive Nutrition	3(3-0)	Major
UAM-302	Citizenship Education & Community Engagement	3(2-1)	Audit
Total Credit Hours		20(19-1)	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
FST-402	Essentials of Food Science and Technology	3(2-1)	Fundamental
PATH -402	General Human Pathology	3(2-1)	Fundamental
PHARM-402	Pharmacology-II	3(3-0)	Major
HND-402	Nutrition Through the Life Cycle	3(3-0)	Major
HND-404	Nutritional Immunology	3(3-0)	Major
HND-406	Nutrition Epidemiology	3(3-0)	Major
HND-408	Nutrition Policies and Programs	3(3-0)	Major
QS-302	Quranic Studies	1(1-0)	Audit



Scheme of Studies

B.Sc. (Hons.) Human Nutrition & Dietetics

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
FST-501	Principles of Human Nutrition	3(3-0)	Fundamental
FST-503	Food Microbiology	3(2-1)	General
FST-511	Food Analysis and Sensory Evaluation	3(2-1)	General
HND-501	Functional Foods and Nutraceuticals	3(3-0)	Major
HND-503	Nutritional Education and Awareness	3(2-1)	Fundamental
HND-505	Nutrition Through Social Protection	2(2-0)	Major
HND-507	Dietetics-I	3(2-1)	Major
Total Credit Hours		20 (16-4)	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
HND-502	Dietetics-II	3(2-1)	Major
HND-504	Drug-Nutrient Interactions	2(2-0)	Major
HND-506	Food Supplements	2(2-0)	Major
HND-508	Research Methods in Nutrition	3(1-2)	Major
HND-510	Meal Planning and Management	3(2-1)	Major
		13 (9-4)	
QS-302	Quranic Studies	1(1-0)	Audit
Elective Courses			
HND-512	Water Safety in Developing World	3(2-1)	Elective
HND-514	Food Toxins and Allergens	3(3-0)	Elective
HND-516	Sports Nutrition	3(2-1)	Elective
FST-502	Food Chemistry	3(3-0)	Elective
		6	
Total Credit Hours		19(13-6)	

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
FST-619	Food Safety and Quality Management	2(2-0)	General
HND-601	Dietetics-III	3(2-1)	Major
HND-603	Nutritional Practices in Clinical Care	3(2-1)	Major
HND-605	Global Food Issues	3(3-0)	Major
		11(7-4)	
Elective Courses			
HND-607	Nutrition in Emergencies	3(3-0)	Elective
HND-609	Genetically Modified Foods and Food Diversification	3(3-0)	Elective
HND-611	Infant and Young Child Feeding	3(2-1)	Elective
		6	
Total Credit Hours		17(11-6)	
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
HND-612	Internship/Project	6(0-6)	Major Course
Total Credit Hours		6(0-6)	



Scheme of Studies

B.Sc. (Hons.) Home Economics

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
ENG-301	Composition and Communication Skills	3(3-0)
CS-301	Computer Science and Information Technology	2(0-2)
SOC-301	Fundamentals of Rural Sociology/Behavior	3(3-0)
BIOCHEM-301	Elementary Chemistry	3(2-1)
HE-301	Fundamentals of Food and Nutrition	3(2-1)
HE-303	Introduction to Home Economics	2(2-0)
HE-305	Fundamentals of Clothing & Textiles	3(2-1)
UAM-301	Social and Religious Tolerance	2(2-0) Audit
QS-302	Quranic Studies	1(1-0) Audit
Total Credit Hours		19(14-5)

SEMESTER-II

Course Code	Course Title	Credit Hours
HE- 302	Introduction to Art and Design-I	3(1-2)
HE- 304	Family Problems and Intervention Strategies	2(2-0)
HE- 306	Family Clothing and Consumer Education	3(2-1)
HE- 308	Home Management and Housing I	3(2-1)
HE- 310	Food and Nutrition Education	3(2-1)
SSH-302	Pakistan Studies	2(2-0)
HORT-302	Home Gardening	3(2-1)
UAM-302	Citizenship Education and Community Engagement	3(2-1) Audit
QS-302	Quranic Studies	1(1-0) Audit
Total Credit Hours		19(13-6)

SEMESTER-III Major Courses

Course Code	Course Title	Credit Hours
IS-401 or SSH-402	Islamic Studies or Ethics (for non-Muslim/foreigners)	3(3-0)
FST-402	Essentials of Food Science & Technology	3(2-1)
HE-401	Life span Development	3(3-0)
HE-403	Fashion Designing	2(1-1)
HE-405	Introduction to Art and Design-II	2(0-2)
HE-407	Fundamentals of Economics	3(3-0)
HE-409	Home Management and Housing II	3(2-1)
QS-302	Quranic Studies	1(1-0)
Total Credit Hours		19(14-5)

SEMESTER-IV Major Courses

Course Code	Course Title	Credit Hours
STAT-402	Bio-Statistics and Computer Applications	3(2-1)
HE-402	Basic Psychology	3(3-0)
HE-404	Entrepreneurship for Home Based Industry and Rural Development	2(1-1)
HE-406	Communication in Human and Family Relation	3(2-1)
HE-408	Meal Management	3(2-1)
HE-410	Communication skills and leadership development	2(1-1)
HE-412	Home Economics Education, Administration & Supervision	3(3-0)
QS-302	Quranic Studies	1(1-0)
Total Credit Hours		19(14-5)



Scheme of Studies

B.Sc. (Hons.) Home Economics

Major Food and Nutrition

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
FN-501	Physiological aspects of Nutrition	3(3-0)
FN-503	Applied Nutrition	3(3-0)
FN-505	Experimental study of local cuisines	3(1-2)
FN-507	Nutritional Epidemiology in Public Health	3(2-1)
MICRO-501	Introduction to Microbiology & Immunology	3(2-1)
PHYSIO-501	Human Physiology I	3(2-1)
Total Credit Hours		18(13-5)

SEMESTER-VI

Course Code	Course Title	Credit Hours
FN-502	Dietetics	3(2-1)
FN-504	Nutrition & Diet Therapy	3(2-1)
FN-506	Institutional and Food Service Management	3(2-1)
FN-508	Infant Nutrition and Child Health	3(2-1)
FN-510	Nutritional Management in Disasters	3(3-0)
FN-512	Advanced Nutrition	3(2-1)
Total Credit Hours		18(13-5)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-601	Instrumental Techniques in Food Analysis	3(1-2)
FST-607	Food Product Development	3(1-2)
FST-611	Research Projects and Scientific Writing	2(1-1)
FN-601	Nutritional Practices in Clinical care	3(2-1)
FN-603	Nutritional Disorders	3(3-0)
Total		14(8-6)
Elective Courses Choose 1 course of 3 credit hours		
FN-605	Nutrition, Health and Prevention	3(3-0)
FN-607	Sports Nutrition	3(3-0)
FN-609	Food Allergens	3(3-0)
Total Credit Hours		17(11-6)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
FN-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Home Economics

Major Textiles & Clothing

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
TC-501	Textile Designing	3(1-2)
TC-503	Textile Designing & weaving	3(2-1)
TC-505	Pattern making	3(1-2)
TC-507	Fiber Science	3(3-0)
TC-509	Fashion Designing and Illustrations	3(1-2)
TC-511	Textiles Chemistry I	3(2-1)
Total Credit Hours		18(10-8)

SEMESTER-VI

Course Code	Course Title	Credit Hours
TC-502	Art of Draping	3(1-2)
TC-504	Textiles Computer aided design	3(2-1)
TC-506	Clothing Styles	3(1-2)
TC-508	Advanced Textiles	3(2-1)
TC-510	Economic, Social and Psychological aspects of Clothing and Textile	3(3-0)
TC-512	Textiles Chemistry II	3(2-1)
Total Credit Hours		18(11-7)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-611	Research Projects and Scientific Writing	2(1-1)
TC-601	Textile Testing	3(2-1)
TC-603	Dyeing and Printing	3(1-2)
TC-605	Textile Industrial Management	3(2-1)
TC-607	Decorative Fabrics	3(1-2)
Total		14(7-7)
Elective Choose one course of 3 credit hours		
TC-609	Historic Costume	3(3-0)
TC-611	Fashion Photography	3(1-2)
TC-613	Fashion and Boutique Management	3(2-1)
Total Credit Hours		17

SEMESTER-VIII

Course Code	Course Title	Credit Hours
TC-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Home Economics

Major Human Development & Family Study (HDF)

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
HDF-501	Development from prenatal to Infancy	3(3-0)
HDF-503	Childhood Care and Development	3(2-1)
HDF-505	Theoretical Perspectives of Human Development	3(3-0)
HDF-507	Adolescent Development	3(2-1)
HDF-509	Early Childhood and Guidance	3(3-0)
HDF-511	Educational Psychology	3(2-1)
Total Credit Hours		18(15-3)

SEMESTER-VI

Course Code	Course Title	Credit Hours
HDF-502	Exceptional Children	3(2-1)
HDF-504	Gender Identity and Expression	3(3-0)
HDF-506	Positive Psychology	3(3-0)
HDF-508	Abnormal Psychology	3(3-0)
HDF-510	Human and Family Ecology	3(3-0)
HDF-512	Planning and Managing Human Services	3(3-0)
Total Credit Hours		18(17-1)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-611	Research Projects and Scientific Writing	2(1-1)
HDF-601	Counseling & Guidance	3(2-1)
HDF-603	Elementary Education and Administration	3(2-1)
HDF-605	Psychological Testing	3(2-1)
HDF-607	Adulthood and Aging	3(2-1)
HDF-609	Family Dynamics	3(3-0)
Total Credit Hours		17(12-5)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
HDF-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Home Economics Major Art & Design

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
AD-501	Commercial Art	3(1-2)
AD-503	Essentials of Interior Design I	3(1-2)
AD-505	Painting & Print Making	3(1-2)
AD-507	Interior Design	3(1-2)
AD-509	Applied Art-I	3(1-2)
AD-511	Art Education-I	3(1-2)
Total Credit Hours		18(6-12)

SEMESTER-VI

Course Code	Course Title	Credit Hours
AD-502	Applied Art-II	3(1-2)
AD-504	Art Education-II	3(1-2)
AD-506	Hand Built Pottery	3(1-2)
AD-508	Art Appreciation	3(3-0)
AD-510	Drawing and Painting	3(0-3)
AD-512	Textile Design and Printing	3(1-2)
Total Credit Hours		18(7-11)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-611	Research Projects and Scientific Writing	2(1-1)
AD-601	Weaving	3(1-2)
AD-603	Graphic Communication	3(1-2)
AD-605	Essentials of Interior Design II	3(1-2)
AD-607	Ceramics	3(1-2)
AD-609	Islamic Art	3(1-2)
Total Credit Hours		17(6-11)

SEMESTER VIII

Course Code	Course Title	Credit Hours
AD-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Home Economics

Major Interior &
Environmental Design (IED)

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
IED-501	Interior Space Planning I	3(3-0)
IED-503	Fundamentals of Interior Architecture I	3(3-0)
IED-505	Designing the Furniture	3(2-1)
IED-507	Interior Design Application	3(1-2)
IED-509	Consumer Marketing Strategies	3(2-1)
IED-511	Advance Computer Applications for Interior Design.	3(1-2)
Total Credit Hours		18(12-6)

SEMESTER-VI

Course Code	Course Title	Credit Hours
IED-502	Designing functional spaces for special needs	3(2-1)
IED-504	Designing for Soft Furnishing	3(2-1)
IED-506	Interior Environment	3(2-1)
IED-508	Fundamentals of Interior Architecture II	3(1-2)
IED-510	Environmental Aesthetics	3(2-1)
IED-512	Interior Design Project 1	3(0-3)
Total Credit Hours		18(9-9)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-611	Research Projects and Scientific Writing	2(1-1)
IED-601	Interior Space Planning II	3(1-2)
IED-603	Environmental Management	3(1-2)
IED-605	Interior Design Professional practice management	3(2-1)
IED-607	Environmental Ethics	3(3-0)
IED-609	Interior Design Project II	3(0-3)
Total Credit Hours		17(8-9)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
IED-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Home Economics

Major Resource &
Family Management (RFM)

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
RFM-501	Essentials of Management	3(3-0)
RFM-503	Small Business Management	3(2-1)
RFM-505	Hotel Management	3(2-1)
RFM-507	Fundamentals of Marketing	3(3-0)
RFM-509	Management of Household Affairs	3(2-1)
RFM-511	Family Finance	3(3-0)
Total Credit Hours		18(15-3)

SEMESTER-VI

Course Code	Course Title	Credit Hours
RFM-502	Essentials of communication	3(3-0)
RFM-504	House Keeping Management	3(2-1)
RFM-506	Home Management Supervision	3(2-1)
RFM-508	Organizational Behavior	3(3-0)
RFM-510	Essentials of Communication	3(3-0)
RFM-512	Environmental Management	3(3-0)
Total Credit Hours		18(16-2)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FST-611	Research Projects and Scientific Writing	2(1-1)
RFM-601	Consumer Economics	3(2-1)
RFM-603	Human Resource Management	3(3-0)
RFM-605	Management in Institutions	3(3-0)
RFM-607	Consumer Behavior	3(3-0)
RFM-609	Human Resource Development	3(3-0)
Total Credit Hours		17(15-2)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
RFM-612	Internship/Project	6(0-6)
Total Credit Hours		6(0-6)

Faculty of Social Sciences & Humanities





Faculty of Social Sciences & Humanities

Prof. Dr. Irfan Ahmad Baig
Dean - FSS&H

Dean's Message

The Global economy is becoming increasingly competitive and recent inflationary trends are alarming. Under the changing global scenarios, assurance of sustainable supply of food and other agricultural products now demands high level of productivity and cost effectiveness. It is now duty of economists to come out with solutions based on sound data analysis and logical thinking to address optimization issues under the changing set of human demands, regulatory and policy mechanism, and political motives to serve the long-run objectives of sustainable development and inclusiveness. Economics in general can help with better decision-making, social welfare, planning and issue handling. Our curriculum is continually informed by research and industry insights to be bold, rigorous, and global in outlook. As Dean, I am much privileged to introduce the Faculty of Social Sciences & Humanities. We have a team of young enthusiastic faculty members who are ready to accept challenges in the societal dimension of agriculture, rural entrepreneurship, agro-businesses and other related subjects. We are committed to enhancing our applied research outcomes, expanding our curriculum and strengthening our connections with industry to help shape the world of agribusiness and economics in Pakistan and internationally. My team is well equipped and holds international exposure to compare and design the modern day solutions for a traditional agricultural business sector. Producing industry-ready graduates and through impactful research, our faculty informs and advances the policy and practice that underpins the ever evolving agribusiness, agricultural and resource economics and social environment in which we live. I encourage you to join us today to lead the world of business tomorrow.

The faculty with its constituent organs has been exploring socio-economic issues of national/international importance to assist policy makers and development practitioners in formulation of pro-poor policies for sustainable development. Faculty of Social Sciences and Humanities is currently offering degree programs at undergraduate level in the disciplines of Agricultural and Resource Economics, Agribusiness Management, Computer Sciences and Information Technology. The Faculty also offers postgraduate degree programs in Agricultural Economics, Agribusiness Management and Computer Sciences. Keeping in view, the future requirements and challenges of 21st century, the Faculty has upgraded and revised its institutional programs both at undergraduate and postgraduate levels. The Faculty looks forward to initiate postgraduate degree programs in Agribusiness to cater market needs and public

Department of
Department of Agribusiness
and Applied Economics

Department of
Computer Science

Department of
Outreach and Continuing Education

Islamic Studies

English

Agricultural Extension

Department of
Statistics

Center for Agricultural Sustainability
in South Punjab



DEPARTMENT OF
**AGRIBUSINESS &
APPLIED ECONOMICS**



BBA

Agribusiness

B.Sc (Hons)

Agricultural and Resource Economics

B.Sc (Hons)

Agriculture Major in Agricultural and Resource Economics

B.Sc (Hons)

Agriculture major in Farm Management



DEPARTMENT OF AGRIBUSINESS & APPLIED ECONOMICS

Population of Pakistan is increasing at an alarming rate and its majority depends directly or indirectly on agriculture sector for their livelihood. Therefore, agriculture development is inevitable for ensuring food security, improving quality of life, alleviation of poverty and overall development in the rural areas. The Department of Agribusiness and Applied Economics is well aware of changing scenarios of the sector and emerging challenges of rural economy of Pakistan and is committed to equip the young social and agricultural scientists with updated knowledge and sophisticated research skills enabling them to handle economic, social and environmental challenges in the achieving the goal of sustainable rural development. To cater the needs, the department offers following undergraduate programmes.

BBA **Agribusiness**

The vision of BBA Agribusiness degree program is the expansion of the self-importance and a sense of pride in Agri-business profession in our students, in the direction to construct an excellent Agri Entrepreneur and Fostering Agribusiness & Management and the Food Security. BBA Agribusiness primarily focuses on polishing the personality and intellectual capability of our students through personal meetings, guidance in combination with presentations and extensive discussions in the classrooms. Above all, the achievement of this degree is to provide an excellent blend of faculty from academia as well as executives from industry (businesses, banks, and other financial and marketing fields) because we believe in excellence in agriculture business education.

B.Sc (Hons) **Agricultural and Resource Economics**

B.Sc. (Hons.) Agricultural and Resource Economics program aims to produce professional graduates with the knowledge, skills and attributes required for problem solving and economic decision making across a diverse range of agricultural and natural resource issues. This degree provides students with a strong economic and quantitative background that allows them to explore a variety of professional career options or to advance to higher degree studies.

B.Sc. (Hons.) **Agriculture Major in Agricultural and Resource Economics**

B.Sc. (Hons.) Agriculture major in Agricultural and Resource Economics degree seeks to promote tertiary education and human capacity building in agricultural and resource economics. Programme mission includes achieving food security and sustainable agricultural development by providing qualified professionals to contribute in various national as well as international organizations for the purpose.

B.Sc. (Hons) **Agriculture major in Farm Management**

B.Sc. (Hons.) Agriculture major in Farm Management is aimed at improving the skills of future farm managers to prepare them for the challenges and opportunities of a dynamic and complex agri-system.

DEPARTMENT OF AGRIBUSINESS & APPLIED ECONOMICS



DR. IRFAN AHMAD BAIG

Ph.D

Professor & Dean

● Expertise:
Climate Change, Resource Use
Efficiency, Water Resource Management

● Email:
irfan.baig@mnsuam.edu.pk



DR. MUBASHIR MEHDI

Ph.D

Professor and Director (BIAEC)

● Expertise:
Value Chain Research and
Development, Agribusiness Management
and Entrepreneurship

● Email:
mubashir.mehdi@mnsuam.edu.pk



DR. SAMI ULLAH

Ph.D

Assistant Professor

● Expertise:
Productivity and Efficiency
Analysis, Dairy Markets, Agricultural Policy

● Email:
sami.ullah@mnsuam.edu.pk



DR. MUHAMMAD ALI IMRAN

Ph.D

Lecturer

● Expertise:
Economics of Climate smart agriculture (CSA),
Resource management and sustainable agriculture
analysis, Market integration, Policy analysis matrix

● Email:
alli.imran@mnsuam.edu.pk



MR. MANAN ASLAM

MS

Lecturer

● Expertise:
Agribusiness, Agricultural Marketing, Consumer
Behaviour, Business Ethics and Entrepreneurship

● Email:
manan.aslam@mnsuam.edu.pk



DR. NASIR NADEEM

Ph.D

Professor and Chairman

● Expertise:
Agricultural Productivity, Impact
Analysis, Agriculture Policy Analysis

● Email:
nasir.nadeem@mnsuam.edu.pk



DR. UMAR IJAZ AHMED

Ph.D

Assistant Professor

● Expertise:
Food Security, Agricultural Policy Analysis,
Market integration

● Email:
umar.ijaz@mnsuam.edu.pk



DR. MUHAMMAD HASEEB RAZA

Ph.D

Assistant Professor

● Expertise:
Natural resource management, Impact assessments,
Agricultural policies,
Farmers' decision making, Institutions and governance

● Email:
fahim.nawaz@mnsuam.edu.pk



DR. HAFIZ ZAHID MEHMOOD

Ph.D

Lecturer

● Expertise:
Climate Change, Sustainable Agriculture Production

● Email:
zahid.mehmood@mnsuam.edu.pk



MR. M. ARQAM IQBAL

M.Sc. (Hons.)

Lecturer

● Expertise:
Resource Use Efficiency and
Productivity, Agricultural Policy Analysis

● Email:
arqam.iqbal@mnsuam.edu.pk

DEPARTMENT OF AGRIBUSINESS & APPLIED ECONOMICS



MR. SHOAIB NASIR

Lecturer

M.Sc.

- Expertise:
Natural Resource Economics, Global GAP & International Standards Compliance
- Email:
Shoaib.nasir@mnsuam.edu.pk



MR. MUHAMMAD BILAL AHSAN

Lecturer

MS

- Expertise:
Supply chain/ Value chain research and development
- Email:
bilal.ahsan@mnsuam.edu.pk



MS. BEENISH SARFRAZ

Lecturer

MSBA

- Expertise:
Consumer Behaviour, Marketing and Management, Business ethics
- Email:
benish.sarfraz@mnsuam.edu.pk



MR. ABD-UR- REHMAN

Lecturer

M.Sc.

- Expertise:
International Agribusiness and Rural Development Economics
- Email:
abdur.rehman@mnsuam.edu.pk



Department of Computer Science

Computer Science is the subject of experimentation and engineering that form the foundation for the design and function of information processing systems. It is the scientific approach of computation and a systematic study of feasibility, structure, expression and mechanization that enables the efficient and effective access to information systems. To follow this vision, the undergraduate programs in Computer Science, Data Science and Information Technology are being offered.

The Bachelor of Science in Computer Science (BSCS), Bachelor of Science in Data Science (BSDS) and the Bachelor of Science in Information Technology (BSIT) programs are being offered at MNS-University of Agriculture, Multan. The Department of Computer Science is dedicated to train and produce quality graduates who can utilize the comprehensive knowledge in various fields of Computer Science, Data Science and Technology. These programs provide an in-depth theoretical as well as practical knowledge that will enable the students to apply their skills in the emerging areas of computer sciences. The curriculum of BS(CS), BS(DS) and BS(IT) programs is designed to train the students with advanced knowledge, research and development skills in Software Engineering, Computer Programming, Computer Networks, Information and Network Security, Artificial Intelligence, Data Science, DBMS and Operating System.

DEPARTMENT OF COMPUTER SCIENCE



DR. SALMAN QADRI Ph.D

Associate Professor & Chairman

● Expertise:
Computer Vision, Precision Agriculture, Digital Health & Software Engineering

● Email:
salman.qadri@mnsuam.edu.pk



DR. AYESHA HAKIM Ph.D

Assistant Professor

● Expertise:
Shape and Audio Analysis, Affective Computing, Computer Vision & Machine Learning

● Email:
ayesha.hakim@mnsuam.edu.pk



DR. NADEEM IQBAL Ph.D

Assistant Professor

● Expertise:
Geometric Deep Learning, Digital Image Processing, Graph Neural Work

● Email:
nadeem.iqbal@mnsuam.edu.pk



DR. HIRA NAZIR Ph.D

Assistant Professor

● Expertise:
Secure Smart Farming, digital image watermarking

● Email:
hira.nazir@mnsuam.edu.pk



MR. ISRAR HUSSAIN MS

Lecturer

● Expertise:
Semantic Web and Database

● Email:
israr.hussain@mnsuam.edu.pk



DR. ABDUL RAZZAQ Ph.D

Associate Professor

● Expertise:
Skeleton Extraction and Animation, Digital Image Processing & Machine Learning

● Email:
abdul.razzaq@mnsuam.edu.pk



DR. AAMIR HUSSAIN Ph.D

Assistant Professor

● Expertise:
Information Security, Internet of Things (IoT), Wireless Sensor Network (WSN)

● Email:
aamir.hussain@mnsuam.edu.pk



DR. HAFIZ MUHAMMAD SANULLAH BADAR Ph.D

Assistant Professor

● Expertise:
Cyber Security, Machine Learning, Data Science

● Email:
sanullah.badar@mnsuam.edu.pk



MR. ADNAN ALTAF MS

Lecturer

● Expertise:
Digital Image Processing

● Email:
adnan.altaf@mnsuam.edu.pk



MS. JAVERIA JABEEN MS

Lecturer

● Expertise:
Software Engineering

● Email:
javeria.jabeen@mnsuam.edu.pk

DEPARTMENT OF COMPUTER SCIENCE



MS. MANAL AHMAD

Research Officer

MS

- Expertise:
Data Science, Machine Learning
- Email:
manal.ahmad@mnsuam.edu.pk



MR. MUHAMMAD SHEHZAD

Research Officer

M.Phil

- Expertise:
Artificial Intelligence, Machine Learning, Deep Learning
- Email:
muhammad.shehzad@mnsuam.edu.pk



MR. MUHAMMAD AZIZ UR REHMAN

Research Officer

MS

- Expertise:
Data Science, Digital Image Processing,
Machine Learning, System Analysis
- Email:
aziz.chauhdhary@mnsuam.edu.pk



MS. RAMSHA AHMAD

Research Officer

MS

- Expertise:
Artificial Intelligence, Machine Learning,
Text Mining, Bioinformatics
- Email:
ramsha.ahmad@mnsuam.edu.pk



Department of Outreach and Continuing Education (DOCE)





Department of Outreach and Continuing Education (DOCE)

The Department of Outreach and Continuing Education (DOCE) at MNS-UAM offers various short courses associated with skill development and community education. The department was established in 2015 with the aim of developing proactive agricultural outreach along with the community training through skill development courses. The postgraduate program in Agriculture Extension is going to be offered. The department has qualified faculty, which is actively involved in developing latest courses and promoting effective outreach activities. The Institute is running several research projects funded by National Vocational and Technical Training Commission, Punjab Skill Development Fund, and other funding bodies. Keeping in view the gap in digital agriculture, department is also planning to launch e-outreach program for establishing linkages among the farming community, industry and the researchers to address the problems of the stakeholders through the digital transformation in agriculture. The department will also be frequently organizing the faculty and student training programs.

Mission

To create a positive impact on the agricultural community by engaging diverse stakeholders in the planning and delivery of meaningful content and evidence-based programs.

Vision

To engage and empower individuals and communities, to become innovative, sustainable, resilient, and healthy.

شعبہ علوم اسلامیہ

یونیورسٹی آف ایگریکلچر ملتان زراعت، نباتات، خوراک، حیوانات، نیکنالوجی اور سماجی علوم کی تدریس و تحقیق کا ادارہ اور تربیت گاہ ہے۔ یونیورسٹی انتظامیہ نے اس بات کا ادراک کیا کہ طلباء و طالبات کے لیے جس قدر زرعی علوم کا جاننا اہم ہے اتنا ہی دینی و سماجی علوم سے واقفیت حاصل کرنا بھی ضروری ہے۔ زراعت، تجارت، صنعت، نیکنالوجی کے علوم کا ارتقاء ایک سماج ہی میں ہوتا ہے۔ سماج میں موجود افراد کا ایک دوسرے سے گہرا ربط و تعلق ہوتا ہے۔ تمام لوگ ایک دوسرے سے کسی نہ کسی (معاشرتی و کسبی، نسبی و فکری) رشتے میں جڑے ہوتے ہیں۔ کسی بھی انسان کے مثبت یا منفی رویے اور بلند و پست اخلاق اس کے سماجی کردار سے نمایاں ہوتے ہیں۔ اعلیٰ کردار کی تعمیر کے لیے کسی اعلیٰ فکر کا ہونا ضروری ہے۔ تاکہ یہ جان جائے کہ سماجی تقاضے کیا ہیں؟ سماج میں موجود افراد کے باہمی تعلقات کی اساس کیا ہے؟ انسانوں کے مسلمہ اخلاق کون سے ہیں؟ طلباء و طالبات میں دین اسلام کی اعلیٰ فکر پر معاشرتی تشکیل کا شعور بیدار کیا جائے۔ تاکہ وہ انسانی اجتماع کو ترقی دینے والے اعلیٰ اخلاق کو پروان چڑھائیں اور اجتماع کو نقصان دینے والے برے اخلاق سے محفوظ رہیں۔ ان اہم معاشرتی امور کو عمل میں لانے کے لیے یونیورسٹی میں شعبہ علوم اسلامیہ کا قیام عمل میں لایا گیا۔ جس کا مقصد یونیورسٹی کے طلباء و طالبات میں دینی علوم کے اساسی ماخذ قرآن حکیم کے افکار عالیہ، خاتم النبیین حضرت محمد ﷺ کے اسوہ حسنہ، احادیث مبارکہ کے مقدس علوم اور تاریخ اسلام کے ساتھ ساتھ دینی افکار کی اساس پر قانون، سماج، سیاست، معیشت کا تعارف پیدا کرنا ہے۔ طلباء و طالبات میں مثبت سماجی رویوں کی تشکیل، اعلیٰ اخلاق کی تعمیر، اوصاف حمیدہ کی افزائش کرنا ہے۔

مقاصد:

طلباء و طالبات میں اللہ سے تعلق، انسان دوستی اور سماجی خدمت جیسے اعلیٰ تصورات کو پروان چڑھانا۔ تاکہ وہ خلوص نیت، بلند اخلاق اور شعوری کردار کے حامل ہوں۔ وہ انسان دوست جذبہ کے ساتھ زرعی علوم کو ترقی دیں اور قومی و بین الاقوامی سطح پر ملک و ملت کا نام روشن کریں۔

غرض و غایت:

طلباء و طالبات کو دینی تعلیمات سے روشناس کروانے کے ساتھ ساتھ

۱۔ عصر حاضر کے نظریاتی، اخلاقی، سماجی، سیاسی اور معاشی رجحانات سے آگاہ کرنا۔

۲۔ جذباتیت سے بلند ہو کر عصر حاضر کے چیلنجز کو شعوری بنیادوں پر سمجھنے کا اہل بنانا۔

۳۔ دین اسلام کی آفاقی تعلیمات کو سائنٹفک اور موثر انداز سے پیش کرنے کی صلاحیت پیدا کرنا۔

۴۔ جدید نیکنالوجی کے استعمال کے ساتھ ساتھ اس کے مثبت سماجی کردار و اثرات سے آگاہ کرنا۔



اہداف:

طلباء و طالبات کے صحت مند رویوں کی تعمیر کرنا اور تربیت دینا تاکہ وہ

۱۔ دینی شعائر کا احترام کریں اور دینی احکامات کو عمل میں لائیں۔

۲۔ معاشرہ میں بردباری، بھائی چارہ، ذہنی وسعت اور اعتدال جیسی صحت بخش اقدار کا مظاہرہ کریں اور ان کا پرچار کریں۔

۳۔ فرقہ واریت، گروہیت، عصبیت اور طبقاتیت کے مقابلہ پر وحدت انسانیت، بھائی چارہ، امن پسندی اور مساوات کا عملی نمونہ بنیں۔

۴۔ شعبہ زراعت میں ایجادات کے ذریعہ انسانوں کو سہولیات بہم پہنچانے میں کردار ادا کریں۔



Department of

ENGLISH





Department of Agricultural Extension



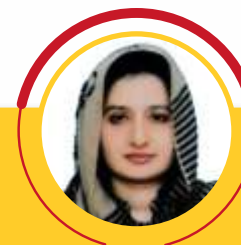
Agricultural Extension education plays multipurpose role in the provision of need-based and demand-based knowledge by serving as a bridge between research and farming community.



Department of

Statistics

The agricultural investigations are based on the application of statistical methods and procedures which are helpful in testing hypotheses using observed data in estimations of parameters and predictions. Department of Statistics at MNS University of Agriculture Multan puts all efforts to equip the students with effective training in the field of statistics by teaching them basic and modern knowledge of the subject. The ambition is to produce graduates with skills to predict, forecast and estimate the real time data.



MS. SAMRA NASEEM

Position: Lecturer

Qualification: M.Phil Statistics

Expertise: Applied statistics, Data analyses

Email: samra.naseem@mnsuam.edu.pk

DEPARTMENT OF OUTREACH AND CONTINUING EDUCATION



DR. RANA BINYAMIN

Chairman/Associate Professor

Ph.D

- Expertise:
Plant Virology

- Email:
binyamin@mnsuam.edu.pk



DR. RASHEED AHMAD

Assistant Professor

Ph.D

- Expertise:
Islamic Social Thoughts & Tafseeri Literature in
Colonial Era of Subcontinent

- Email:
rasheed.ahmad@mnsuam.edu.pk



MR. AZHER KHAN

Lecturer (Study Leave)

MS

- Expertise:
Pakistani Literature in English, Postcolonial and
Postmodern Literature, Translation Studies,
Communication Skills, Academic Writing

- Email:
azher.khan@mnsuam.edu.pk



MS. BUKHTAWAR RANA

Research Officer

M.Phil

- Expertise:
Poetry and character analysis

- Email:
bukhtawar.rana@mnsuam.edu.pk



DR. MUDASSAR YASIN

Assistant Professor

Ph.D

- Expertise:
Agri. Extension

- Email:
mudassar.yasin@mnsuam.edu.pk



DR. FAWAD ZAFAR AHMAD KHAN

Assistant Professor

Ph.D

- Expertise:
Biological control, Biodiversity, Invasive pest
management, Turfgrass IPM

- Email:
fawad.zafar@mnsuam.edu.pk



MS. AIMEN BATOOL

Lecturer

M.Phil

- Expertise:
Postmodernism, Feminism, women's writings,
post colonialism

- Email:
aimen.batool@mnsuam.edu.pk



Scheme of Studies

BBA Agribusiness

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
ENG-301	English Composition and Comprehension	3(3-0)
BBAA-301	Basics of Agriculture	3(2-1)
BBAA-303	Soil Science and Crop Production	3(2-1)
BBAA-305	Orchard Planning and Management	3(2-1)
BBAA-307	Introduction to Agribusiness	3(3-0)
BBAA-309	Agricultural Knowledge and Information System	3(2-1)
UAM-302	Citizenship Education and Community Engagement	3(2-1)
QS-301(Part-I)	Quranic Studies	1(1-0)
Total Credit Hours		22 (17-5)

SEMESTER-II

Course Code	Course Title	Credit Hours
BBAA-302	General Plant Protection	3(2-1)
BBAA-304	Natural Resource Management	3(3-0)
BBAA-306	Principles of Management	3(3-0)
ENG-302	Communication and Presentation Skills	3(3-0)
BBAA-308	Principles of Microeconomics	3(3-0)
BBAA-310	Principles of Marketing	3(3-0)
UAM-301	Social and Religious Tolerance	2(2-0)
Total Credit Hours		20(19-1)

SEMESTER-III

Course Code	Course Title	Credit Hours
BBAA-401	Agricultural Marketing	3(3-0)
BBAA-403	Livestock Business Management	3(2-1)
BBAA-405	Principles of Macroeconomics	3(3-0)
ENG-401	Technical and Business English Writing	3(3-0)
BBAA-407	Introduction to Rural Sociology	3(3-0)
SSH-301	Pakistan Studies	2(2-0)
QS-301(Part-II)	Quranic Studies	1(1-0)
Total Credit Hours		18 (18-1)

SEMESTER-IV

Course Code	Course Title	Credit Hours
BBAA-402	Fundamentals of Entomology	3(2-1)
BBAA-406	Agribusiness Supply Chain Management	3(3-0)
IS-401/SSH-402	Islamic studies/ Ethics for foreigners or Non-Muslims	3(3-0)
BBAA-408	Consumer Behavior	3(3-0)
BBAA-410	Social Psychology and Self-Development	3(3-0)
BBAA-412	Agribusiness Strategic Management	3(3-0)
Total Credit Hours		18 (17-1)



Scheme of Studies

BBA Agribusiness

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
BBAA-501	Food Service Industry	3(3-0)
BBAA-503	Entrepreneurship	3(3-0)
BBAA-505	Financial Accounting	3(3-0)
BBAA-507	Business Mathematics & Statistics	3(3-0)
BBAA-509	E-Commerce in Agribusiness	3(3-0)
BBAA-511	Business Research Methods	3(3-0)
QS-301(Part-III)	Quranic Studies	1(1-0)
Total Credit Hours		19(19-0)

SEMESTER-VI

Course Code	Course Title	Credit Hours
BBAA-502	Farm Mechanization	3(2-1)
BBAA-504	Financial Management	3(3-0)
BBAA-506	Poultry Business Management	3(3-0)
BBAA-508	Retail Management	3(3-0)
BBAA-510	Business Ethics	3(3-0)
BBAA-512	Water Management	3(3-0)
Total Credit Hours		18(17-1)

SEMESTER-VII

Course Code	Course Title	Credit Hours
BBAA-601	Advertisement & Sales Management	3(3-0)
BBAA-603	Introduction to International Trade	3(3-0)
BBAA-605	Human Resource Management in Agriculture	3(3-0)
BBAA-607	Agricultural Finance Management	3(3-0)
BBAA-609	Organization Behavior	3(3-0)
BBAA-611	Agricultural Price Analysis	3(3-0)
QS-301(Part-IV)	Quranic Studies	1(1-0)
Total Credit Hours		19 (18-1)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
BBAA-602	Report Writing & Internship	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

B.Sc. (Hons.) Agricultural and Resource Economics

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
ARE-301	Principles of Microeconomics	3(3-0)	Major
FRW-401	Agro-Forestry, Range and Wildlife Management	3(2-1)	FC*
LM-301	Livestock Management	2(1-1)	FC
CS-301	Computer Science & Information Technology	2(0-2)	Comp**
AEE-301	Introduction to Agri. Extension	3(2-1)	FC
ENG-301	English Composition and Comprehension	3(3-0)	Comp
Math-301	Elementary Mathematics	3(3-0)	Comp
UAM (SRT)-301	Social and Religious Tolerance Course	2(2-0)	Audit
Total Credit		19(14-5)	
Hours			

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
ARE-302	Principles of Macroeconomics	3(3-0)	Major
STAT-302	Introductory Statistics	2(2-0)	Comp
AGRON-302	Principles of Agronomy	3(2-1)	FC
HORT-302	Introductory Horticulture	3(2-1)	FC
ID-304	Irrigation and Drainage Practices	2(1-1)	FC
SSH-302	Pakistan Studies	2(2-0)	Comp
ENG-302	Communication and Presentation Skills	3(3-0)	Comp
UAM (SRT)-302	Active Citizenship Education	2(2-0)	Audit
QS-302	Quranic Studies	1(1-0)	Audit
Total Credit		18 (15-3)	
Hours			

SEMESTER-III

Course code	Course Title	Credit Hours	Course type
ARE-401	Intermediate Microeconomics	3(3-0)	Major
SES-401	Introduction to Soil Science	3(2-1)	FC
RS-409	Rural Sociology & Development	2(2-0)	FC
IS-401 / SSH-402	Islamic Studies / Ethics for Foreigners or Non-Muslims	3(3-0) / 3(3-0)	Comp
SST-501	Principles of Seed Science	3(2-1)	FC
ENG-401	Technical and Business English Writing	3(3-0)	Comp
ARE-403	Intermediate Mathematics	3(3-0)	Major
Total Credit		20(18-2)	
Hours			

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
ARE-402	Intermediate Macroeconomics	3(3-0)	Major
ARE-404	Agriculture Production Economics	3(3-0)	Major
ARE-406	Economy of Pakistan	3(3-0)	Major
ARE-408	Human Resource Management and Organizational Behavior	3(3-0)	Major
ARE-410	Principles of Agricultural Marketing	3(3-0)	Major
ENT-402	General plant protection	2(1-1)	FC
HND-408	Nutrition Policies and Programs	3(3-0)	FC
QS-302	Quranic Studies	1(1-0)	Audit
Total Credit Hours		20(19-1)	



Scheme of Studies

B.Sc. (Hons.) Agricultural and Resource Economics

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
ARE-501	Microeconomics	3(3-0)	Major
ARE-503	Farm Planning and Budgeting	3(2-1)	Major
STAT-501	Statistical Methods for Economists	3(2-1)	Major
ARE-505	Introduction to International Trade	3(3-0)	Major
ARE-507	Mathematical Economics	3(3-0)	Major
ARE-509	Introduction to Environmental Economics	2(2-0)	Major
ARE-511	Principles and Strategies of Agribusiness Management	3(3-0)	Major
Total Credit Hours		20(18-2)	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
ARE-502	Macroeconomics	3(3-0)	Major
ARE-504	Development Economics	3(3-0)	Major
ARE-506	Econometrics-I	3(2-1)	Major
ARE-508	Natural Resource Economics	3(3-0)	Major
	Elective I from Group A	3(3-0)	Elective
	Elective II from Group A	3(3-0)	Elective
QS-302	Quranic Studies	1(1-0)	Audit
Total Credit Hours		18(17-1)	

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
ARE-601	Econometrics-II	3(2-1)	Major
ARE-603	Issues and Policies of Agriculture, Resources and Environment	3(3-0)	Major
ARE-605	Research Methods in Agricultural Economics	3(2-1)	Major
ARE-607	Software Applications in Economic Analysis	2(0-2)	Major
	Elective III from Group B	3(3-0)/ 3(2-1)	Elective
	Elective IV from Group B	3(3-0)	Elective
QS-302	Quranic Studies	1(1-0)	Audit
Total Credit Hours		17(13-4)/ 17(12-5)	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
ARE-612	Internship & External Evaluation	6(0-6)	Major
Total Credit Hours		6(0-6)	
Grand Total Credit Hours		138(114-24)/138(113-25)	

Note: *Foundation Course and **Compulsory



Scheme of Studies

B.Sc. (Hons.) Agricultural and Resource Economics

(Semester V-VIII)

Elective Courses

Group A

Course Code	Course Title	Credit Hours
ARE-510	Livestock Economics	3(3-0)
ARE-512	Rural Development	3(3-0)
ARE-514	Environment & Sustainable Development	3(3-0)
ARE-516	Fundamentals of Agricultural Price Analysis	3(3-0)
ARE-518	Agricultural Finance	3(3-0)
ARE-520	Land and Water Resource Management	3(3-0)

Group B

Course Code	Course Title	Credit Hours
ARE-609	Managerial Economics	3(3-0)
ARE-611	Spatial Econometrics	3(2-1)
ARE-613	Consumer Behavior	3(3-0)
ARE-615	Islamic Economics	3(3-0)
ARE-617	Project Management and Evaluation	3(3-0)
ARE-619	Monetary Economics	3(3-0)



Scheme of Studies

B.Sc. (Hons.) Agriculture

Major in
Agricultural and
Resource Economics

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
AE-501	Microeconomics – I	3(3-0)	Major
AE-503	Macroeconomics – I	3(3-0)	Major
AE-505	Mathematics for Economists	3(3-0)	Major
AE-507	Agricultural Finance	3(3-0)	Major
AE-509	Food and Agricultural Marketing	3(3-0)	Major
STAT-501	Statistical Methods for Economist	3(3-0)	Supporting Course (SC)
	Elective from Group 1	2(2-0)	
Hours		Total Credit	18 + 2 = 20

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
AE-502	Microeconomics –II	3(3-0)	Major
AE-504	Macroeconomics – II	3(3-0)	Major
AE-506	Econometrics – I	3 (2-1)	Major
AE-508	Agricultural issues and Policies of Pakistan-I	3(3-0)	Major
AE-510	Agribusiness Supply Chain Management	3(3-0)	Major
AE-512	Development Economics	3(3-0)	Major
	Elective from Group 2	2(2-0)	
Hours		Total Credit	18 + 2 = 20

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
AE-601	Econometrics – II	3(2-1)	Major
AE-603	Natural Resource Economics	3(3-0)	Major
AE-605	International Economics	3(3-0)	Major
AE-607	Agricultural Production Economics	3(3-0)	Major
AE-609	Research Methods in Agricultural Economics	3(3-0)	Major
AE-611	Islamic Economics	3(3-0)	Major
	Elective from Group 3	2(2-0)	
Hours		Total Credit	18 + 2 = 20

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
AE-602	Internship and Project	6(0-6)	Major
Hours		Total Credit Hours	6(0-6)



Scheme of Studies

B.Sc. (Hons.) Agriculture

Major in
Agricultural and
Resource Economics

(Semester V-VIII)

Elective Courses

Group 1

Course Code	Course Title	Credit Hours	Course Type
AE-511	Agriculture and Rural Development	2(2-0)	Elective
AE-513	Introduction to Rural Sociology	2(2-0)	Elective
AE-515	Economics of Livestock Production	2(2-0)	Elective

Group 2

Course Code	Course Title	Credit Hours	Course Type
AE-514	Project Management and Evaluation	2(2-0)	Elective
AE-516	Introduction to Labor Economics	2(2-0)	Elective
AE-518	Agricultural Issues and Policies of Pakistan-II	2(2-0)	Elective

Group 3

Course Code	Course Title	Credit Hours	Course Type
AE-613	Economics of Climate Change	2(2-0)	Elective
AE-615	Introduction to Environmental Economics	2(2-0)	Elective
AE-617	Ecological Economics	2(2-0)	Elective



Scheme of Studies

B.Sc. (Hons.) Agriculture

Major in
Farm
Management

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
FM-501	Entrepreneurship	3(2-1)
FM-503	Introduction and Role of ICT in Agriculture	3(2-1)
FM-505	Agribusiness Marketing Strategies	3(3-0)
FM-507	Agricultural Laws	3(3-0)
FM-509	Agricultural Production Economics	3(3-0)
FM-511	Farm Planning and Budgeting using ICT	3(2-1)
FM-513	Horticulture	3(1-2)
Total Credit Hours		21(16-5)

SEMESTER-VI

Course Code	Course Title	Credit Hours
FM-502	Risks Assessment and Mitigation	3(2-1)
FM-504	Human Resource Management and Business Ethics	3(3-0)
FM-506	Sustainable Agriculture and Organic Farming	3(2-1)
FM-508	Good Agricultural Practices (GAP) and other International Standards	3(3-0)
FM-510	Precision Agriculture	3(2-1)
FM-512	Integrated Pest Management	3(2-1)
FM-514	Post-Harvest Management and Value Addition	3(2-1)
Total Credit Hours		21(16-5)

SEMESTER-VII

Course Code	Course Title	Credit Hours
FM-601	Internship	10(0-10)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
FM-602	Internship	10(0-10)



Scheme of Studies

BS Computer Science

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
CS-301	Application of Information & Communication Technologies	3 (2-3)	GER
CS-303	Programming Fundamentals	4 (3-3)	Core
GE-305	Applied Physics	3 (2-3)	GER
GE-307	Ideology & Constitution of Pakistan	2 (2-0)	GER
GE-309	Functional English	3 (3-0)	GER
Total Credit		15	
Hours			
MT-311	General Mathematics	3(3-0)	Deficiency
UAM-301	SRT	2(2-0)	Audit

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
CS-302	Discrete Structures	3 (3-0)	GER
CS-304	Object Oriented Programming	4 (3-3)	Core
GE-306	Calculus & Analytic Geometry	3 (3-0)	GER
GE-308	Expository Writing	3 (3-0)	GER
GE-310	Islamic Studies or Ethics (for foreigner / Non-Muslims)	2 (2-0)	GER
CS-312	Digital Logic Design	3 (2-3)	Core
Total Credit Hours		18	
MT-312	Elementary Mathematics	3(3-0)	Deficiency
UAM-302	Community engagement	3(2-1)	Audit
QS-302	QS	1(1-0)	Audit

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
CS-401	Data Structures	4(3-3)	Core
CS-403	Comp. Organization & Assembly Language	4 (3-3)	Core
MT-405	Linear Algebra	3 (2-3)	Maths & Supp.
MT-409	Multivariable Calculus	3 (3-0)	Maths & Supp.
CS-407	Computer Networks	3 (3-0)	Core
EW-411	Technical and Business Writing	3 (2-3)	Maths & Supp.
Total Credit Hours		19	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
CS-402	Software Engineering	3 (3-0)	Core
CS-404	Operating Systems	3 (2-3)	Core
CS-406	Database Systems	4 (3-3)	Core
CS-408	Analysis of Algorithms	3 (3-0)	Core
CS-410	Computer Architecture	3 (3-0)	CS Core
MT-412	Probability & Statistics	3 (3-0)	Maths & Supp.
Total Credit Hours		19	
QS-302	Quranic Studies	1(1-0)	Audit



Scheme of Studies

BS Computer Science

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
CS-501	Artificial Intelligence	3 (2-3)	Core
CS-503	Theory of Automata	3 (2-3)	CS Core
CS-505	CS Elective I	3 (2-3)	CS Elec
CS-507	Information Security	3 (2-3)	Core
CS-509	CS Elective II	3 (2-3)	CS Elec
BBAA-505	Financial Accounting	3(3-0)	GER
Total Credit Hours		17	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
CS-502	Advance Database Management Systems	3 (2-3)	CS Core
DS-504	CS Elective III	3 (2-3)	CS Elec
CS-506	CS Elective IV	3 (2-3)	CS Elec
CS-508	Compiler Construction	3 (2-3)	CS Core
CS-510	CS Elective V	3 (2-3)	CS Elec
GE-512	Introduction to management	2 (2-0)	GER
Total Credit Hours		18	
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
CS-601	Final Year Project I	2 (0-6)	Core
CS-603	CS Elective VI	3 (2-3)	CS Elec
CS-605	HCI & Computer Graphics	3 (2-3)	CS Core
CS-607	Parallel & Distributed Computing	3 (2-3)	CS Core
CS-609	Civics and Community Engagement	2 (2-0)	GER
Total Credit Hours		16	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
CS-602	Final Year Project II	4 (0-12)	Core
GE-604	Entrepreneurship	2 (2-0)	GER
GE-606	Civics and Community Engagement	2 (2-0)	GER
CS- 608	CS Elective	3(3-0)	CS Elec
Total Credit Hours		11	

Total Credit Hours:	130
Deficiency Courses	06
Credit Hours	

Note:

F.Sc (Pre-medical) will study MATH-311 in 1st semester & MATH-314 in 2nd semester as deficiency course.



Scheme of Studies

BS

Data Science

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
CS-301	Application of Information & Communication Technologies	3(2-3)	General
CS-303	Programming Fundamentals	4(3-3)	Core
GE-305	Applied Physics	3(2-3)	General
GE-307	Ideology & Constitution of Pakistan	2(2-0)	General
GE-309	Functional English	3(3-0)	General
Total Credit Hours		15	
MT-311	General Mathematics	3(3-0)	Deficiency
UAM-301	Social & Religious Tolerance	2(2-0)	Audit

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
CS-302	Discrete Structures	3(3-0)	General
CS-304	Object Oriented Programming	4(3-3)	Core
MT-306	Calculus & Analytic Geometry	3(3-0)	Maths & Supp.
GE-308	Expository Writing	3(3-0)	General
GE-310	Islamic Studies / Ethics (Non-Muslims)	2(2-0)	General
CS-312	Digital Logic Design	3(2-3)	Core
Total Credit Hours		18	
MT-314	Elementary Mathematics	3(3-0)	Deficiency
UAM-302	Citizenship Education & Community Engagement	3(2-1)	Audit
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
CS-401	Data Structures	4(3-3)	Core
CS-403	Computer Organization & Assembly Language	3(2-3)	Core
MT-405	Linear Algebra	3(3-0)	Maths & Supp.
CS-407	Computer Networks	3(2-3)	Core
MT-409	Multivariable Calculus	3(3-0)	Maths & Supp.
GE-411	Technical & Business Writing	3(3-0)	General
Total Credit Hours		19	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
CS-402	Software Engineering	3(3-0)	Core
CS-404	Operating Systems	3(2-3)	Core
CS-406	Database Systems	4(3-3)	Core
CS-408	Analysis of Algorithms	3(3-0)	Core
DS-410	Introduction to Data Science	3(2-3)	DS Core
MT-412	Probability & Statistics	3(3-0)	Maths & Supp.
Total Credit Hours		19	
QS-302	Quranic Studies	1(1-0)	Audit



Scheme of Studies

BS

Data Science

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
CS-501	Artificial Intelligence	3(2-3)	Core
CS-503	DS Elective – I	3(2-3)	DS Elective
DS-505	Data Mining	3(2-3)	DS Core
CS-507	Information Security	3(2-3)	Core
DS-509	Advanced Statistics	3(2-3)	DS Core
BBA-505	Financial Accounting	3(3-0)	Uni. Elective
Total Credit Hours		18	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
CS-502	DS Elective - II	3(2-3)	DS Elective
DS-504	Data Warehousing & Business Intelligence	3(2-3)	DS Core
DS-506	Data Visualisation	3(2-3)	DS Core
DS-508	DS Elective - III	3(2-3)	DS Elective
DS-510	DS Elective - IV	3(2-3)	DS Elective
GE-512	Introduction to Management	2(2-0)	GER
Total Credit Hours		17	
QS-302	Quranic Studies	1(1-0)	Audit

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
CS-601	Final Year Project - I	2(0-6)	Core
CS-603	Parallel & Distributed Computing	3(2-3)	DS Core
DS-605	DS Elective - V	3(2-3)	DS Elective
DS-607	DS Elective - VI	3(2-3)	DS Elective
GE-609	Civics and Community Engagement	2(2-0)	GER
Total Credit Hours		13	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
CS-602	Final Year Project - II	4(0-12)	Core
GE-604	Entrepreneurship	2(2-0)	GER
GE-606	Professional Practices	2(2-0)	GER
DS-608	DS Elective - VII	3(3-0)	DS Elective
Total Credit Hours		11	
QS-302	Quranic Studies	1(1-0)	Audit
Total Credit Hours of the Program		130	



Scheme of Studies

BS Information Technology

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
CS-301	Application of Information & Communication Technologies	3(2-3)	GER
CS-303	Programming Fundamentals	4(3-3)	Core
GE-305	Applied Physics	3(2-3)	GER
GE -307	Ideology & Constitution of Pakistan	2(2-0)	GER
GE-309	Functional English	3(3-0)	GER
Total Credit Hours		15(12-9)	
MT-311	General Mathematics	3(3-0)	Deficiency
UAM-301	Social & Religious Tolerance	2(2-0)	Audit Course

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
CS-302	Discrete Structures	3(3-0)	GER
CS-304	Object Oriented Programming	4(3-3)	Core
MT-306	Calculus & Analytic Geometry	3(3-0)	Maths & Supp.
GE-308	Expository Writing	3(3-0)	GER
GE 310 / GE-310	Islamic Studies / Ethics (Non-Muslims)	2(2-0)	GER
CS-312	Digital Logic Design	3(2-3)	Core
Total Credit Hours		18(16-6)	
MT-314	Elementary Mathematics	3(3-0)	Deficiency Course
UAM-302	Citizenship Education & Community Engagement	3(2-1)	Audit Course
QS-302	Quranic Studies	1(1-0)	Audit Course

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
CS-401	Data Structures	4(3-3)	Core
CS- 403	Computer Organization & Assembly Language	3(2-3)	Core
MT- 405	Linear Algebra	3(3-0)	Maths & Supp.
CS-407	Computer Networks	3(2-3)	Core
MT-409	Multivariable Calculus	3(3-0)	Maths & Supp.
GE-411	Technical & Business Writing	3(3-0)	GER
Total Credit Hours		19(16-9)	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
CS-402	Software Engineering	3(3-0)	Core
CS-404	Operating Systems	3(2-3)	Core
CS-406	Database Systems	4(3-3)	Core
CS-408	Analysis of Algorithms	3(3-0)	Core
CS-410	IT Elective – I	3(2-3)	IT Elective
MT-412	Probability & Statistics	3(3-0)	Maths & Supp.
Total Credit Hours		19(16-9)	
QS-302	Quranic Studies	1(1-0)	Audit Course



Scheme of Studies

BS Information Technology

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
CS-501	Artificial Intelligence	3(2-3)	Core
CS-503	IT Elective – II	3(2-3)	IT Elective
IT-505	IT Core- I	3(2-3)	IT Core
CS-507	Information Security	3(2-3)	Core
IT-509	IT Elective -III	3(2-3)	IT Elective
BBA-505	Financial Accounting	3(3-0)	Uni. Elective
Total Credit Hours		18(13-15)	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
IT-502	IT Elective -IV	3(2-3)	IT Elective
IT-504	IT Elective -V	3(2-3)	IT Elective
IT-506	IT Core- II	3(2-3)	IT Core
IT-508	IT Elective -VI	3(2-3)	IT Elective
IT-510	IT Core- III	3(2-3)	IT Core
GE-512	Introduction to Management	2(2-0)	GER
Total Credit Hours		17(12-15)	
QS-302	Quranic Studies	1(1-0)	Audit Course

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
CS-601	Final Year Project-I	2(0-6)	Core
CS-603	IT Core- IV	3(2-3)	IT Core
DS-605	IT Elective – VII	3(2-3)	IT Elective
IT-607	IT Core- V	3(2-3)	IT Core
GE-609	Civics and Community Engagement	2(2-0)	GER
Total Credit Hours		13(8-15)	

SEMESTER-VIII

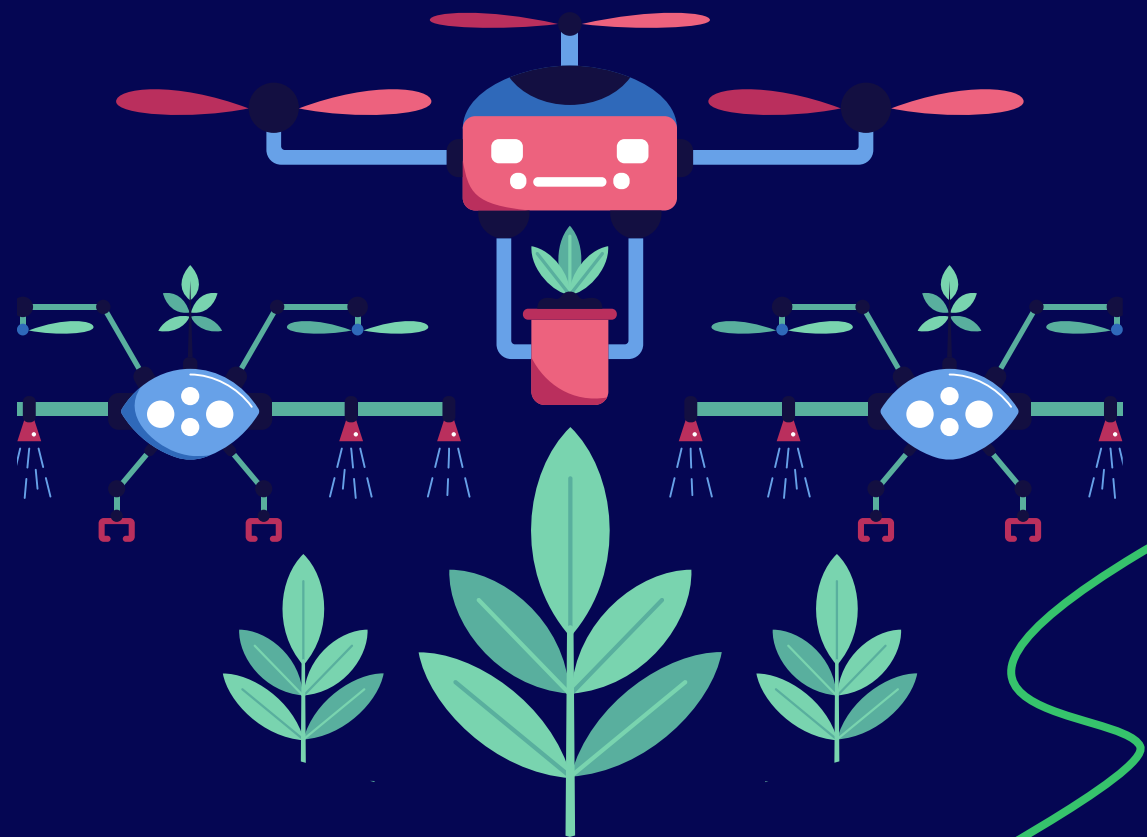
Course Code	Course Title	Credit Hours	Course Type
CS-602	Final Year Project-II	4(0-12)	Core
GE-604	Entrepreneurship	2(2-0)	GER
GE-606	Professional Practices	2(2-0)	GER
IT-611	IT Core- VI	3(2-3)	IT Core
Total Credit Hours		11(6-15)	
QS-302	Quranic Studies	1(1-0)	Audit Course
Total Credit Hours		130	
Deficiency Courses Credit Hours		06	

Note:

F.Sc (Pre-medical) will study MATH-311 in 1st semester & MATH-314 in 2nd semester as deficiency course.



**FACULTY OF
AGRICULTURAL,
BIOSYSTEMS
ENGINEERING &
TECHNOLOGY
(FABSET)**





Department of
**Agricultural
Engineering**





Department of **Agricultural Engineering**

The Department of Agricultural Engineering at MNS-University of Agriculture, Multan (MNSUAM) integrates engineering principles with natural and artificial systems to support agriculture, agro-industries, and engineering business enterprises. Engineers/technologists would focus on solving complex, rapidly changing problems and develop technology related to agro-industrial machinery and processes, energy and water use efficiency, renewable energy development, and instrumentation and robotics.

Internship programs are a distinction of this Department. These would emphasize hands-on practice; therefore, internship programs make these degree programs unique in the country. The department also focuses on developing leadership and entrepreneurial skills, providing opportunities for community service and professional and personal growth through specialized partner institutions and professional organizations.

Vision:

Be a leading source of knowledge and support for agricultural engineering and technology by developing innovative technologies through advanced research and producing qualified professionals with problem-solving approach.

Mission:

Develop and promote the latest techniques in Agriculture Engineering and Technology domain with respect to water use efficiency, farm mechanization, irrigation, agriculture processing, agro based industries, and natural resource management.

Programs Offered:

B.Sc

**Agro-Industrial
Engineering Technology**

Mission:

To produce Agro based industrial technologists equipped with knowledge, skill, entrepreneurial and ethical attributes for enhancing viable industrial growth on sustainable goals.

Introduction

Competitive agro industries enhance the quality of agricultural produce, create employment and generate income for farming and non-farming communities. In developing countries, fast urbanization and change in consumer preferences are met by agro-industrial development. The full potential of agro industries as an engine for economic development has not yet been realized in Pakistan. This is due to a serious lack of technical expertise and understanding related to produce properties, value-addition processes, and machinery used in agro-industries of the country.

MNSUAM is the first University in Pakistan that has taken the initiative to start B.Sc. Agro-Industrial Engineering Technology program to strengthen the technical workforce in agro-industries of the country, provide better quality grain and fibre, and help industries grow to contribute to the country's economy. The degree program offers a unique applied skill and knowledge to begin a career as an agro-industrial technologist. This programme has been developed in consultation with industry and academics to provide students with a combined formal education curriculum and practical experience to gain an edge through genuine industry knowledge.

The following major streams of B.Sc. Agro-Industrial Engineering Technology program are:

- Feed Milling Technology
- Grain Milling Technology
- Sugarcane Processing Technology
- Cotton Processing Technology
- Milk Processing Technology
- Food Processing Technology

Program Educational Objectives (PEOs)

1. Demonstrate technical knowledge and skills in agro-based industries.
2. Identify and solve technical and societal problems.
3. Apply advanced skills for improving professional abilities to contribute in the technology domain.
4. Work effectively as a team member or lead multidisciplinary teams while demonstrating the interpersonal, management skills, social and ethical responsibilities.

Program Learning Outcomes

Engineering Technology Knowledge:

Breadth, depth and type of knowledge, both theoretical and practical

Sa1: Apply knowledge of mathematics, natural science, computing and engineering fundamentals and an engineering specialization as specified in SK1 to SK4 respectively to defined and applied engineering procedures, processes, systems, or methodologies.

Problem Analysis Complexity of analysis

Sa2: Identify, formulate, research literature and analyse broadly defined engineering problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization. (SK1 to Sk4)

Design/development of solutions:

Breadth and uniqueness of engineering problems i.e., the extent to which problems are original and to which solutions have not previously been identified or codified

Sa3: Design solutions for broadly- defined engineering technology problems and contribute to the design of systems, components, or processes to meet identified needs with appropriate consideration for public health and safety, whole-life cost, net zero carbon as well as resource, cultural, societal, and environmental considerations as required (Sk5)

Sa4: Conduct investigations of broadly- defined engineering problems; locate, search, and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions (Sk8)

Investigation:

Breadth and depth of investigation and experimentation

Sa5: Select and apply, and recognize limitations of appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to broadly defined engineering problems (SK2 and Sk6)

Tool Usage:

Level of understanding of the appropriateness of technologies and tools

SA6: When solving broadly defined engineering problems, analyse and evaluate sustainable development. impacts* to: society, the economy, sustainability, health and safety, legal frameworks, and the environment (SK1, SK5, and Sk7)

The Engineer and the World:

Level of knowledge and responsibility for sustainable development

Sa7: Understand and commit to professional ethics and norms of engineering technology practice including compliance with national and international laws. Demonstrate an understanding of the need for diversity and inclusion (Sk9)

Ethics:

Understanding and level of practice

Sa8: Function effectively as an individual, and as a member or leader in diverse and inclusive teams and in multi-disciplinary, face-to-face, remote, and distributed settings (Sk9)

Individual and Collaborative Teamwork: Role in and diversity of team

Sa9: Communicate effectively and inclusively on broadly defined engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, considering cultural, language, and learning differences.

Communication:

Level of communication according to type of activities performed

Sa10: Apply knowledge and understanding of engineering management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.

Project Management and Finance:

Level of management required for differing types of activity

Sa11: Recognize the need for, and have the ability for i) independent and life- long learning and ii) critical thinking in the face of new specialist technologies (Sk8)

Knowledge Profile

SK1: A systematic, theory-based understanding of the natural sciences applicable to the sub- discipline and awareness of relevant social sciences.

SK2: Conceptually based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed consideration and use of models applicable to the sub-discipline.

SK3: A systematic, theory-based formulation of engineering fundamentals required in an accepted sub-discipline.

SK4: Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for an accepted sub-discipline.

SK5: Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports engineering design and operations using the technologies of a practice area.

SK6: Knowledge of engineering technologies applicable in the sub-discipline.

SK7: Knowledge of the role of technology in society and identified issues in applying engineering technology, such as public safety and sustainable development (represented by the 17 UN- SDGs).

SK8: Engagement with the current technological literature of the discipline and awareness of the power of critical thinking.

SK9: Ethics, inclusive behaviour, and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

Eligibility Criteria:

F.Sc. (Pre-Engineering, Pre-Medical, Pre-Agriculture)/ICS/A-Level/DAE (Three Years) in Civil, Mechanical, Auto and farm, Electrical, Electronics, Chemical, Instrumentation and any relevant with minimum 50 % marks.

Merit Criteria:

- Intermediate 50%
- Matric 20%
- Entry Test 30%

MNSUAM will accept entry test taken by MNSUAM, UET, UAF and HEC.

Seat distribution:

Pre-Engineering: 40% of total seats

DAE (Three Years): 40% of total students

Pre-Medical/Pre-Agriculture/ICS/A-Level: 20% of total seats

Note:

- (1) If no or fewer applications is received in one or more of the categories of applicants, the seats of those categories will be merged in the other category applicants.
- (2) The Pre-Medical students will study the deficiency course of Mathematics.

Department of Agricultural Engineering



ENGR. DR. SARFRAZ HASHIM

Assistant Professor and Incharge HoD

Ph.D

- Expertise:
Water Resource Engineering and Wastewater Treatment
- Email:
sarfraz.hashim@mnsuam.edu.pk



ENGR. ABDUL ALEEM

Subject Expert

M.Sc. (Hons.)

- Expertise:
Farm Mechanization
- Email:
abdul.aleem17@yahoo.com



ENGR. DR. MUHAMMAD SAIFULLAH

Assistant Professor

Ph.D

- Expertise:
Groundwater, climate change, numerical modelling
- Email:
muhammad.saifullah@mnsuam.edu.pk



ENGR. DR. MOHSIN NAWAZ

Assistant Professor

Ph.D

- Expertise:
Water/Wastewater Treatment, Photocatalysis,
Mechanical Cotton Picking
- Email:
mohsin.nawaz@mnsuam.edu.pk



ENGR. DR. UMAIR SULTAN

Assistant Professor

Ph.D

- Expertise:
Thermal Power Engineering
- Email:
umair.sultan@mnsuam.edu.pk



ENGR. DR. SHAZIA HANIF

Assistant Professor

Ph.D

- Expertise:
Energy and Environmental Engineering, Solar Drying,
Adsorption, Drying and cooling
- Email:
shazia.hanif@mnsuam.edu.pk



DR. MUHAMMAD ABID

Assistant Professor

Ph.D

- Expertise:
Condense Matter Physics
- Email:
muhammad.abid@mnsuam.edu.pk



ENGR. SHAHZAD AHMED (Study Leave)

Lecturer

M.Sc.

- Expertise:
Water Resources Engineering and RS & GIS
- Email:
shahzad@mnsuam.edu.pk



ENGR. DR. MUHAMMAD MOHSIN KHAN

Lecturer

Ph.D

- Expertise:
Water Resources and Remote Sensing
- Email:
mohsin.khan@mnsuam.edu.pk



ENGR. FARRUKH EHSAN

Lecturer

M.Sc. (Hons.)

- Expertise:
Farm Mechanization and Postharvest Engineering
- Email:
farrukh.ehsan@mnsuam.edu.pk

Department of Agricultural Engineering



ENGR. MUHAMMAD KASHIF (Study Leave)
Lecturer

M.Sc. (Hons.)

● Expertise:
Energy and Environment

● Email:
muhammad.kashif@mnsuam.edu.pk



ENGR. SAQIB YASEEN
Lab Engineer

B.Sc.

● Expertise:
Industrial Manufacturing

● Email:
saqib.yaseen@mnsuam.edu.pk





Scheme of Studies

B.Sc. Agro Industrial Engineering Technology

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours	Course Type
AIET-101	Technical Drawing and Graphics	2(1-1)	E.F
AIET-103	Workshop Technology	3(1-2)	M.B.D
AIET-105	Introduction to Agro-Based Industry	3(2-1)	M.B.D
CSIT-101	Information and Communication Technology	3(2-1)	C.S.I.T
NS-101	Applied Mathematics-I	3(3-0)	N.S
SS-101	Islamic Studies/Ethics	2(2-0)	S.S
SS-103	Pakistan Studies	2(2-0)	S.S
MATH-301	Elementary Mathematics	3(3-0)	Deficiency
Total Credit Hours		13+5=18	

SEMESTER-II

Course Code	Course Title	Credit Hours	Course Type
AIET-102	Computer Aided Drawing	2(1-1)	E.F
AIET-104	Fluid Mechanics	3(2-1)	E.F
AIET-106	Industrial Material	3(2-1)	M.B.D
NS-102	Applied Physics	3(2-1)	N.S
NS-104	Applied Mathematics-II	3(3-0)	N.S
SS-102	Composition and Communication Skills	3(3-0)	S.S
Total Credit Hours		13+4=17	

SEMESTER-III

Course Code	Course Title	Credit Hours	Course Type
AIET-201	Applied Thermodynamics	3(2-1)	M.B.D
AIET-203	Farm Mechanization	3(2-1)	M.B.D
AIET-205	Environment Health and Safety	3(2-1)	E.F
AIET-207	Industrial Material Handling and Processes	3(2-1)	M.B.D
NS-201	Industrial Chemistry	3(2-1)	N.S
NS-203	Applied Statistics	3(2-1)	N.S
Total Credit Hours		13+5=18	

SEMESTER-IV

Course Code	Course Title	Credit Hours	Course Type
AIET-202	Engine Operation and Maintenance	3(2-1)	M.B.D
AIET-204	Manufacturing Processes	3(2-1)	M.B.D
AIET-206	Post-Harvest Processes	3(2-1)	M.B.D
AIET-208	Grain Science for Industry	3(2-1)	M.B.D
MS-202	Project Management	2(2-0)	M.S
SS-202	Professional Ethics	2(2-0)	S.S
SS-204	Technical Report Writing	2(2-0)	S.S
Total Credit Hours		14+4=18	



Scheme of Studies

B.Sc. Agro Industrial Engineering Technology

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours	Course Type
AIET-301	Farm and Industrial Structures	3(2-1)	M.B.D
AIET-303	Instrumentation and Control	3(2-1)	M.B.D
AIET-305	Total Quality Management	3(2-1)	M.B.D
AIET-307	Industrial Processes and Management	3(2-1)	M.B.D
MS-301	Entrepreneurship	2(2-0)	M.S
Technology Elective I (Student will opt one course)			
AIET-309	Feed Milling Technology	3(2-1)	M.B.D
AIET-311	Cotton Ginning and Fiber Technology	3(2-1)	M.B.D
AIET-313	Sugar Technology	3(2-1)	M.B.D
Total Credit Hours		12+05=17	

SEMESTER-VI

Course Code	Course Title	Credit Hours	Course Type
AIET-302	Automation and Robotics	3(2-1)	M.B.D
AIET-304	Boiler Operation and Maintenance	3(2-1)	M.B.D
AIET-306	Industrial Software Applications	3(2-1)	M.B.D
AIET-308	High Efficiency Irrigation Systems	3(2-1)	M.B.D
MS-302	Supply Chain Management	2(2-0)	M.S
Technology Elective II (Student will opt one course)			
AIET-310	Grain Milling Technology	3(2-1)	M.B.D
AIET-312	Technology of Oils and Fats	3(2-1)	M.B.D
AIET-314	Seed Science and Seed Processing Technology	3(2-1)	M.B.D
Total Credit Hours		12+05=17	

SEMESTER-VII

Course Code	Course Title	Credit Hours	Course Type
AIET-401	Supervised Industrial Training I	16(0-16)	M.B.D
Total Credit Hours		00+16=16	

SEMESTER-VIII

Course Code	Course Title	Credit Hours	Course Type
AIET-402	Supervised Industrial Training II	16(0-16)	M.B.D
Total Credit Hours		00+16=16	

Total credit Hours=137

E.F = Engineering Technology Foundation

M.B.D = Major-based Depth

N.S = Natural Science

S.S = Social Sciences

M.S = Management Sciences



FACULTY OF VETERINARY AND ANIMAL SCIENCES



MNS–University of Agriculture, Multan
www.mnsuam.edu.pk





FACULTY OF VETERINARY AND ANIMAL SCIENCES

Coordinator's Message

Welcome to the Faculty of Veterinary and Animal Sciences. I am honored to serve as Coordinator/ Dean and to be leading our efforts in Veterinary Sciences, Biomedical education, community outreach and research in different areas. Faculty of Veterinary and Animal Sciences offers different Undergraduate and Postgraduate programs related in the domain of Life Sciences, Public Health and Biomedical Sciences through a combination of traditional and innovative technological approaches for excellent teaching and learning. Collectively, our students benefit from the expertise and experience of our highly talented faculty members and the rich collaborative environment. As we focus in producing exceptional Animal Scientists, Specialists and Biomedical researchers, our administrative team and our faculty members never forget that academic excellence must be matched by passion, integrity and professionalism. Our future depends on producing not only future scientists, but also leaders which will play an important role in ensuring Food Security, health and well-being. We are committed to diversity and inclusion in our workplace and within our students and to ensuring that our Faculty is a place where every member of our Faculty family feels valued, seen, heard and always welcomed. We appreciate your interest in our Faculty and invite you to visit or contact us for additional information.



Faculty of Veterinary and Animal Sciences (FVAS)

Faculty of Veterinary and Animal Sciences (FVAS) was established during academic year 2019-2020 as 4th faculty of MNS University of Agriculture, Multan. Faculty has outstanding and dedicated team of 26 faculty members (15 PhD and 11 Non PhD) with diverse background and academic experiences at world's renowned universities from Germany, France, China, and Turkey. The faculty is aimed to earn repute of excellence with intellect and future foresight. Faculty of Veterinary and Animal Sciences is comprised of following Seven Departments.

1. Department of Pathobiology and Biomedical Sciences
2. Department of Animal and Dairy Sciences
3. Department of Clinical Sciences
4. Department of Poultry Science
5. Department of Zoology, Wildlife and Fisheries
6. Department of Biochemistry and Biotechnology
7. Department of Pharmacy
8. Para Veterinary School (Jalalpur Pir Wala)

Programs Offered at Main Campus

Following Undergraduate and Postgraduate degree programs are being offered in the Faculty of Veterinary and Animal Sciences in addition to introductory courses of B.Sc. (Hons.) Agriculture and BBA Agribusiness.

1. B.Sc. (Hons.) Poultry Sciences (4 years)
2. B.Sc. (Hons.) Animal Sciences (4 years)
3. BS Zoology (4 years)
4. BS Microbiology (4 years)
5. BS Biochemistry (4 years)
6. BS Biotechnology (4 Years)
7. BS Medical Laboratory Technology (4 years)
8. BS Public Health (4 years)

Diploma Program

Livestock Assistant Diploma (2 years)

Programs Offered at Jalalpur Pirwala Campus

1. BS Zoology (4 years)
2. Livestock Assistant Diploma (2 years)



DEPARTMENT OF PATHOBIOLOGY AND BIOMEDICAL SCIENCES

Programs Being Offered

- BS Public Health
- BS Medical Lab Technology
- BS Microbiology



Introduction

The Department of Pathobiology and Biomedical Sciences has following major sections, Microbiology, Pathology, Parasitology, Medical Lab and Molecular Biology, and Public Health. The Department is actively engaged in teaching, research, and outreach activities. Research is directed toward basic biomedical and allied health sciences, including microbiology, parasitology, pathology, immunology, molecular biology, epidemiology and public health. Our faculty members' research ranges from the basic understanding of the mechanisms of disease caused by a wide range of agents, including emerging and zoonotic pathogens, to the different protective and pathological responses to host organisms. We offer basic/ advanced training in diagnostic and clinical aspects of pathogens, disease control models and preventative measures as well as other public health concerned aspects.



To generate and disseminate significant knowledge of biomedical and veterinary sciences and offer exemplary education to contribute and to innovatively influence national development



To produce highly skilled graduates to ensure the human well-being and to combat challenges of food security through multidisciplinary scientific approaches

DEPARTMENT OF PATHOBIOLOGY AND BIOMEDICAL SCIENCES



PROF. DR. MUHAMMAD ASIF RAZA
Professor and Chairman

Ph.D (Germany), Post Doc (India), CABSA (South Korea)

- Expertise: Epidemiology (molecular) of public health concerned pathogen, Drug development/ Ethno-Medicine, Parasitology
- Email: asif.raza@mnsuam.edu.pk



DR. ASGHAR ABBAS
Assistant Professor

Ph.D (UAF)

- Expertise: Parasitology, Ethno-Medicine, Immunology
- Email: asghar.abbas@mnsuam.edu.pk



DR. HAFIZ MUHAMMAD ISHAQ
Assistant Professor

Ph.D (China)

- Expertise: Microbiology
- Email: hafiz.ishaq@mnsuam.edu.pk



DR. KASHIF HUSSAIN
Assistant Professor

Ph.D (UAF)

- Expertise: Parasitology
- Email: kashif.hussain@mnsuam.edu.pk



DR. AZIZ UL RAHMAN
Assistant Professor

Ph.D (UVAS)

- Expertise: Microbiology
- Email: aziz.rahman@mnsuam.edu.pk



MR. WAQAR ZAIB
Lecturer (Study Leave)

M.Sc. (Hons.)

- Expertise: Microbiology
- Email: waqar.zaib@mnsuam.edu.pk



MR. MUHAMMAD UMAIR WAQAS
Lecturer

M.Phil.(Australia)

- Expertise: Public Health
- Email: umair.waqas@mnsuam.edu.pk



DR. AHSAN ANJUM
Lecturer

Ph.D (UVAS)

- Expertise: Pathology
- Email: ahsan.anjum@mnsuam.edu.pk



DEPARTMENT OF ANIMAL & DAIRY SCIENCES

Programs Being Offered B.Sc. (Hons.) Animal Sciences



Introduction

The aim of Department of Animal and Dairy Sciences is to provide the qualified, trained, and skilled manpower that reports the Malnutrition and Metabolic diseases of both dairy and fattening industries of southern Punjab.



To strive for sustainable animal production through advanced animal breeding techniques, livestock management, modernized feed technologies, and development of new diagnostics and treatments for nutritional diseases.



To produce skilled animal scientist, for improving the economic status of livestock farmers ultimately national GDP, trained in precision animal husbandry and breeding practices and applied animal feed and nutrition sciences.

DEPARTMENT OF ANIMAL & DAIRY SCIENCES



PROF. DR. JUNAID ALI KHAN

Professor and Chairman

M.S. (France), Ph.D. (France),
Postdoc (France)

● Expertise:
Endocrine and metabolic physiology

● Email:
junaidali.khan@mnsuam.edu.pk



DR. SHAHID ALI

Assistant Professor

Ph.D (China)

● Expertise:
Animal Nutrition

● Email:
shahid.ali@mnsuam.edu.pk



DR. BASEER AHMAD

Assistant Professor

Ph.D (China)

● Expertise:
Poultry Nutrition

● Email:
baseer.ahmad@mnsuam.edu.pk



MR. RANA MUHAMMAD SHAHBAKHT

Lecturer

M.Phil (UVAS)

● Expertise:
Livestock management

● Email:
rana.shabakht@mnsuam.edu.pk



DEPARTMENT OF **CLINICAL SCIENCES**

Programs Being Offered
Livestock
Assistant Diploma
(2 Years)



Introduction

The Department of Clinical Sciences is actively engaged in educational activities, research, and professional services for the general public. Clinical sciences encompass a broad range of animal species, both domesticated and wild, and a vast variety of diseases that may impact diverse species. We are aware of the possible difficulties and complications associated with animal health and work together with our clients and recommending vets to achieve effective results. The Clinical Sciences team at MNSUAM has a diverse spectrum of knowledge, interests, and clinical experience. Our staff is actively involved in clinical services, which include illness diagnosis, treatment, and complete counseling for clients and referring veterinarians on animal health problems, queries, and challenges. Additionally, faculty members guide students undergoing clinical training at the University Veterinary Hospital to treat clinical difficulties in sick animals. The department treats over 1000 clinical cases every year in and around Multan. Additionally, the department educates students on large and small animal reproductive, infertility issues, obstetrical techniques, and post-treatment care for animals. Students are also taught clinical and surgical judgment, and problem-based thinking abilities, all of which are necessary for the profession. The University Veterinary Hospital has been developed and coupled with an ambulatory service, to assist livestock producers at their farms. Additionally, the department has the capability of arranging trainings and seminars for veterinarians, paravets, farmers, and industry stakeholders.



To become the hub of knowledge, applied scientific research and community services in the field of veterinary clinical sciences by addressing the challenges of sustainable animal production.



- To provide competent professional with hands-on training in veterinary clinical sciences through excellence in education, research, outreach, and civic engagement programs in the fields of Veterinary Medicine, Surgery & Theriogenology
- To strengthen and advancement of animal health services in the region for decent livelihood of the community

DEPARTMENT OF CLINICAL SCIENCES



PROF. DR. MUHAMMAD ASIF RAZA
Chairman (Additional Charge)

Ph.D (Germany), Post Doc
(India), CABAR (South Korea)

- Expertise:
Epidemiology (molecular) of public health concerned pathogen, Drug development/ Ethno-Medicine, Parasitology
- Email:
asif.raza@mnsuam.edu.pk



HAFEEZ UR REHMAN ALI KHERA
Lecturer

M.Phil.

- Expertise:
Clinical Medicine and Surgery, Livestock and Poultry Diseases
- Email:
hafeez.rehman@mnsuam.edu.pk



MR. RABNAWAZ KAUSAR
Subject Expert

DVM

- Expertise:
Livestock production
- Email:
rnkausar59@gmail.com



DR. ALI HAIDER
Assistant Professor

Ph.D (UVAS)

- Expertise:
Veterinary Clinical and Nanomedicine
- Email:
ali.haider@mnsuam.edu.pk



MS. SAMAR Wafa KABEER
Lecturer

M.Phil.

- Expertise:
Animal Reproduction
- Email:
samar.wafa@mnsuam.edu.pk



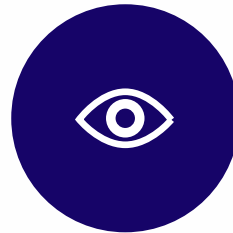
DEPARTMENT OF POULTRY SCIENCE

Programs Being Offered

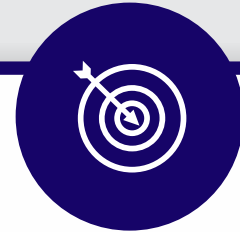
B.Sc. (Hons.) Poultry Science



Ever growing Pakistan Poultry Industry needs skilled human resource. To cater this need, Department of Poultry Science was established in 2018 in the Faculty of Veterinary and Animal Science, MNS-UAM, Multan, which is focused on providing the qualified and trained manpower to smoothly address the issues at commercial farming level as well as initiating the problem-oriented research work to benefit the industry that can be devised through implementing effective strategies for enhancing poultry production and minimizing the constraints in poultry sector. The Department is facilitated with one undergraduate and one post graduate laboratory. The Department of Poultry Science is successfully running a B.Sc. (Hons.) and MS programs. The students of B.Sc. (Hons.) and MS Poultry Science will serve the Pakistan Poultry Industry in better way.



To combat the challenges of food security and nutritional deficiency through sustainable poultry production



- To produce professionals competitive in poultry husbandry practices, modern and rural farming systems, poultry nutrition and disease management.
- To provide students with advanced knowledge of precision poultry production in changing climate scenarios and training in entrepreneurial concepts for national development.

DEPARTMENT OF POULTRY SCIENCE



PROF. DR. JUNAID ALI KHAN
Chairman (Additional Charge)

**M.Sc (France), Ph.D (France),
Post Doc (France)**

● **Expertise:**
Endocrine and metabolic physiology

● **Email:**
junaidali.khan@mnsuam.edu.pk



DR. ATIF REHMAN
Assistant Professor

Ph.D (China)

● **Expertise:**
Poultry Production, Poultry Nutrition

● **Email:**
atif.rahman@mnsuam.edu.pk



MR. FAISAL RIAZ
Lecturer

M.Phil.

● **Expertise:**
Poultry Science

● **Email:**
faisal.riaz@mnsuam.edu.pk



DEPARTMENT OF Zoology, Wildlife and Fisheries

Programs Being Offered

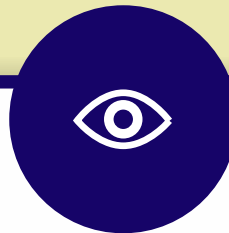
BS Zoology



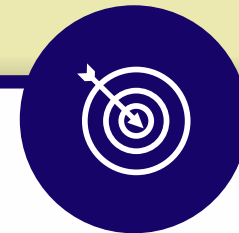
Zoology and Wildlife is among the significant economic sector in Pakistan, contributing in revenue generation, employment, poverty alleviation, and export revenues. Pakistan is gifted with large fishing resources. Fisheries sector has a significant contribution in the national economy, disbursing about one percent to GDP and providing jobs opportunities to about one percent of the country's man power. Likewise, aquaculture is the fastest developing section of the agriculture industry. Attached with new emerging skills of the day, it has become one of the most expanding and rapidly changing fields. The Department is carrying out teaching and research in both basic and applied aspects in different areas such as fresh water biology, shrimp farming, development of cost effective fish feed, fish breeding, aquaculture biotechnology, aquatic environment, fish disease management, use of bio-fertilizers in aquaculture, saline water fisheries.

Our programs prepare students to address and provide immediate solution to major problems and challenges faced by Fish Farmers in Pakistan. We conduct research that drives innovation and new technologies, expands understanding and provides science-based information to solve problems. After graduation, our students will be able to serve in Government institutes such as Fisheries Research Institute, Fish Hatcheries and Laboratories and Private sector, research, academia, industry and advisory.

Currently, we have completed research projects funded by Higher Education Commission (HEC), Pakistan. The construction of the new academic block and research laboratories has further strengthened our research and teaching activities. We are also organizing seminars, conferences and workshops to share thought provoking ideas.



To create significant knowledge and conduct innovative research to impart exemplary education to address the challenges of food security



To produce competent graduates and visionary zoologists for the conservation of natural resources in the context of zero hunger goal

DEPARTMENT OF ZOOLOGY, WILDLIFE AND FISHERIES



PROF. DR. MUHAMMAD ASIF RAZA
Professor and Chairman

Ph.D (Germany), Post Doc
(India), CIBA (South Korea)

- Expertise:
Epidemiology (molecular) of public health concerned pathogen, Drug development/ Ethno-Medicine, Parasitology
- Email:
asif.raza@mnsuam.edu.pk



DR. RIFFAT YASIN
Assistant Professor

Ph.D

- Expertise:
Fisheries, Fish Growth and Nutrition
- Email:
riffat.yasin@mnsuam.edu.pk



DR. NAHEED BANO
Assistant Professor

Ph.D

- Expertise:
Freshwater fisheries, Fish farm management
- Email:
nahed.bano@mnsuam.edu.pk



MS. AMINA IRFAN
Lecturer (Study Leave)

M.Phil.

- Expertise:
Zoology
- Email:
amina.irfan@mnsuam.edu.pk



DEPARTMENT OF Biochemistry & Biotechnology

Programs Being Offered

BS Biochemistry
BS Biotechnology



The department of Biotechnology and Biochemistry started its academic program in 2022. Efforts are underway to provide world top class teaching and research facilities in the disciplines of Biotechnology and Biochemistry. The undergraduate program of Biotechnology & Biochemistry is designed to meet the need of well-trained manpower and to provide comprehensive education and training in core areas of livestock/animal, industrial, environmental, health and medical disciplines. In addition to the hands-on practical sessions, students will be exposed to a progressive curriculum comprising of scientific principles and knowledge in molecular cloning, genome editing, cell tissue culture techniques, Bioinformatics analysis, Bioprocessing technologies, techniques and instrumentations in research and development, as well as business and entrepreneurship skills.



To achieve both academic and research excellence, promote innovative scientific research and community services, and attain leading role in technology development and promotion hub for industry and entrepreneurs.



- The Department aspires to equip students with excellent theoretical knowledge, practical skills and high-quality research-based education to produce quality students and leaders
- To discover, create, understand and apply new knowledge to strengthen the state, region and nation intellectually, technologically and economically.
- To provide future employment and empowerment for the people of southern Punjab in health, livestock/animal, environment, food, cosmetics, forensic, analytical research, medical, agriculture, pharmaceuticals diagnostics, quality control, biosafety and biosecurity sectors.

DEPARTMENT OF BIOCHEMISTRY AND BIOTECHNOLOGY



PROF. DR. JUNAID ALI KHAN

Chairman

M.S. (France), Ph.D. (France),
Post Doc. (France)

● Expertise:
Endocrine and metabolic physiology

● Email:
junaidali.khan@mnsuam.edu.pk



DR. MUHAMMAD USMAN

Lecturer

Ph.D. (PIEAS)

● Expertise:
Nanobiotechnology and Biotechnology

● Email:
muhammad.usman@mnsuam.edu.pk



DR. SARMAD FROGH ARSHAD

Assistant Professor

Ph.D. (UAF)

● Expertise:
Biotechnology, Association mapping, population
structuring, Genomics

● Email:
sarmad.arshad@mnsuam.edu.pk



DEPARTMENT OF Pharmacy



The Department of Pharmacy is a vibrant, multidisciplinary, highly collaborative, supportive and dynamic department. It is dedicated to excellence in training the next generation of scientists, leadership in making discoveries in basic and translational science for improvement of health and quality service to the public and scientific communities. Our department is highly committed to providing an outstanding training environment for students.



To develop and foster significant knowledge, advance research and offer excellent education to contribute to the economic development of nation.



- To carry out world-class scientific research and evidence-based teaching to expand our track record of innovation and excellence in both research and teaching.
- To teach and conduct internationally acclaimed, high quality research in pharmacology and physiology.
- To develop a diverse pool of outstanding scientists trained in modern principles of drug action and discovery to ensure the wellbeing and better human health through organized efforts and informed choices of society.

DEPARTMENT OF PHARMACY



PROF. DR. MUHAMMAD ASIF RAZA

Chairman

Ph.D (Germany), Post Doc
(Australia), CARRA (South Africa)

- Expertise:
Epidemiology (molecular) of public health concerned pathogen, Drug development/ Ethno-Medicine, Parasitology
- Email:
asif.raza@mnsuam.edu.pk



MR. IMRAN AHMAD KHAN

Lecturer

M.Phil.

- Expertise:
Pharmacology, Drug Development Pharmaceutics
- Email:
imran.ahmad@mnsuam.edu.pk



Para-Veterinary School Jalalpur Pirwala

BS Zoology (4 Years)

**Livestock
Assistant
Diploma (LAD) 2-Years**



Para-Veterinary School (PVS) is established during the academic year 2021-2022, in animal-rich region of Jalalpur Pirwala with objective to provide technical veterinary education to the youth of the region and exploit the potential of livestock resources of the Southern Punjab. Veterinary Teaching Hospital at campus and Mobile Veterinary Service is offering hands-on training to the Livestock Assistant Diploma (LAD) students and services to the local community.



Our vision is to create and maintain academic and clinical programs in the field of veterinary sciences for the general benefit of local society and humanity.



Our focus is to build a diverse and inclusive community in South Punjab to improve the health of animal of South Punjab. This will be accomplished by disseminating new knowledge and skills to the youth of the region and providing innovative veterinary services in the region.



PROF. DR. MUHAMMAD ASIF RAZA
Dean FVAS and Incharge

Ph.D (Germany), Post Doc
(Denmark), CABISA (South Africa)

- Expertise:
Epidemiology (molecular) of public health concerned
pathogen, Drug development/ Ethno-Medicine,
Parasitology
- Email:
asif.raza@mnsuam.edu.pk



MR. NASIR NIAZ
Lecturer

M.Phil (Turkey)

- Expertise:
Animal Physiology
- Email:
nasir.niaz@mnsuam.edu.pk



MR. ATIQ ALI
Lecturer

M.Phil (UAF)

- Expertise:
Livestock Management
- Email:
atiq.ali@mnsuam.edu.pk



Scheme of Studies

BS Public Health

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
ENG-301	English Composition and Comprehension	3(3-0)
SSH-302	Pakistan Studies	2(2-0)
MATH-301	Elementary Mathematics	3(2-1)
MICRO-303	Molecular Cell Biology	3(2-1)
PH-301	Sociology of Health and Disease	3(2-1)
CS-301	Computer Appreciation and Application	3(2-1)
Total Credit Hours		17

SEMESTER-II

Course Code	Course Title	Credit Hours
ENG-302	Communication and Presentation Skills	3(3-0)
SSH-301/IS-301	Ethics/Islamic Studies	3(3-0)
STAT-302	Introductory Statistics	2(2-0)
PH-302	Principles of Psychology	3(2-1)
PH-304	Medical Anthropology	3(2-1)
PH-306	Personal Hygiene	3(2-1)
QS-302	Quran Study	Audit
Total Credit Hours		17

SEMESTER-III

Course Code	Course Title	Credit Hours
ENG-401	Technical and Business English Writing	3(3-0)
PH-401	Applied Epidemiology	3(2-1)
PH-403	Population Dynamics	3(3-0)
PH-405	Primary Health Care	3(2-1)
PH-407	Concept of Health and Disease	3(2-1)
UAM-302	Citizenship Education and Community Engagement	Audit
PH-409	General Parasitology	3(2-1)
Total Credit Hours		18

SEMESTER-IV

Course Code	Course Title	Credit Hours
PH-402	Professional Ethics	3(3-0)
PH-404	Basic Biostatistics	3(2-1)
PH-406	Health Promotion, Advocacy and Social Mobilization	3(2-1)
PH-408	Quality Management in Health Care	3(3-0)
MICRO-301	Fundamentals of Microbiology	3(2-1)
ENT-401	Insect Pests of Household, Human and Animals	3(2-1)
QS-302	Quran Study	Audit
Total Credit Hours		18



Scheme of Studies

BS Public Health

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
PH-501	Community Nutrition	3(2-1)
PH-503	Community Pediatrics	3(3-0)
PH-505	Fundamental Principles of Infectious Disease	3(2-1)
PH-507	Epidemiology of communicable Diseases	3(2-1)
PH-509	Non Communicable Disease Epidemiology	3(3-0)
PH-511	Food Safety	3(3-0)
Total Credit Hours		18

SEMESTER-VI

Course Code	Course Title	Credit Hours
PH-502	Reproductive Health	3(2-1)
PH-504	Environment and Occupational Health	3(2-1)
PH-506	Health Policy and Management	3(3-0)
PH-508	Health Planning	3(2-1)
PH-510	District Health Management	3(3-0)
PH-512	Health Professional Education	3(3-0)
QS-302	Quran study	Audit
Total Credit Hours		18

SEMESTER-VII

Course Code	Course Title	Credit Hours
PH-601	Mental Health	3(2-1)
PH-603	Health Marketing	3(2-1)
PH-605	Preparation of Research Project and Scientific Writing	2(1-1)
MICRO-510	One Health	3(2-1)
MICRO-607	Biosafety and Risk Management	3(2-1)
PH-607	Health Economics	3(3-0)
Total Credit Hours		17

SEMESTER-VIII

Course Code	Course Title	Credit Hours
PH-612	Internship/ Report writing/ Research Project	6(0-6)
Total Credit Hours		6(0-6)



Scheme of Studies

BS

Medical Laboratory Technology Program (MLT)

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
MICRO-301	Fundamentals of Microbiology	3(2-1)
MLT-301	Human Anatomy	3(2-1)
BIOCHEM-301	Elementary Biochemistry	3(2-1)
MLT-303	Human Histology	3(2-1)
ENG-301	English Composition and Comprehension	3(3-0)
CS-301	Computer Appreciation and Application	3(2-1)
Total Credit Hours		18

SEMESTER-II

Course Code	Course Title	Credit Hours
MICRO-303	Molecular Cell Biology	3(2-1)
MLT-302	Human Physiology	3(2-1)
MLT-304	Principles of Biochemistry	3(2-1)
UAM-301	Social and Religious Tolerance	Audit
MATH-301	Elementary Mathematics	3(2-1)
ENG-302	Communication and Presentation Skills	3(3-0)
IS-302/ SSH-301	Islamic Studies OR Ethics (for Foreign/Non-Muslim Students)	3(3-0)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

Semester-III

Course Code	Course Title	Credit Hours
PATH-401	General Pathology	3(2-1)
MLT-401	General Pharmacology and Chemotherapy	3(2-1)
MICRO-304	Basic Immunology	3(2-1)
MLT-403	Hematology	3(2-1)
MICRO-502	Medical Microbiology	2(1-1)
STAT-302	Introductory Statistics	2(2-0)
UAM-302	Citizenship Education and Community Engagement	Audit
SSH-302	Pakistan Studies	2(2-0)
Total Credit Hours		18

SEMESTER-IV

Course Code	Course Title	Credit Hours
MLT-402	Systemic Pharmacology	3(2-1)
MICRO-306	General Virology	3(2-1)
PATH-403	Systemic Pathology	3(2-1)
MICRO-510	One Health	3(2-1)
MLT-404	Human Genetics	3(2-1)
ENG-401	Technical and Business English Writing	3(3-0)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

BS

Medical Laboratory Technology Program (MLT)

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
MICRO-511	Basic Bioinformatics	3(2-1)
MLT-501	Clinical Virology	3(2-1)
PARA-402	Diagnostic Parasitology	3(2-1)
PATH-402	Clinical Pathology	3(1-2)
MLT-503	Blood Disorder	3(2-1)
MICRO-607	Biosafety and Risk Management	3(2-1)
Total Credit Hours		18

SEMESTER-VI

Course Code	Course Title	Credit Hours
MLT-502	Medical Laboratory Instrumentation	3(2-1)
MLT-504	Clinical Bacteriology	3(1-2)
MLT-506	Molecular Diagnostics	3(2-1)
MLT-508	Chemical & Forensic Pathology	3(2-1)
MICRO-308	Basic Biotechnology	2(1-1)
MLT-510	Cytology and Cytogenetics	3(2-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		17

Semester-VII

Course Code	Course Title	Credit Hours
MLT-601	Medical Laboratory Management Skills	3(2-1)
MICRO-609	Bio-entrepreneurship	2(2-0)
UAM-611	Preparation of Research Project and Scientific Writing	Audit
MLT-603	Advances in Medical Laboratory Technology	3(1-2)
MLT-605	Blood Banking	3(2-1)
MLT-607	Bioethics	2(1-1)
MLT-609	Advance Diagnostic Imaging Techniques	3(2-1)
Total Credit Hours		16

SEMESTER-VIII

Course Code	Course Title	Credit Hours
MLT-612	Internship and Research Project	6(0-6)
Total Credit Hours		6



Scheme of Studies

BS Microbiology

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
MICRO-301	Fundamentals of Microbiology	3(2-1)
MICRO-303	Molecular Cell Biology	3(2-1)
CS-301	Computer Science and Information Technology	3(2-1)
BIOCHEM-301	Elementary Biochemistry	3(2-1)
ENG-301	English Composition and Comprehension	3(3-0)
IS-302/ SSH-301	Islamic Studies OR Ethics (for Foreign/Non-Muslim Students)	3(3-0)
Total Credit Hours		18

SEMESTER-II

Course Code	Course Title	Credit Hours
MICRO-302	Introduction to Mycology	2(1-1)
MICRO-304	Basic Immunology	3(2-1)
MICRO-306	General Virology	3(2-1)
SSH-302	Pakistan Studies	2(2-0)
ENG-302	Communication and Presentation Skills	3(3-0)
MICRO-308	Basic Biotechnology	2(1-1)
MATH-301	Elementary Mathematics	3(2-1)
UAM-301	Social and Religious Tolerance	Audit
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER- III

Course Code	Course Title	Credit Hours
MICRO-401	Introduction to Cell Culture	3(2-1)
MICRO-403	Bacterial Cell Physiology	3(2-1)
STAT-302	Introductory Statistics	2(2-0)
PATH-401	General Pathology	3(2-1)
BOT-401	Plant Diversity	3(2-1)
UAM-302	Citizenship Education and Community Engagement	Audit
ENG-401	Technical and Business English Writing	3(3-0)
Total Credit Hours		17

SEMESTER -IV

Course Code	Course Title	Credit Hours
MICRO-402	Fundamentals of Microbial Genetics	3(2-1)
MICRO-404	Antimicrobial Resistance & Probiotics	2(1-1)
MICRO-406	Proteomics	2(1-1)
MICRO-408	General Bacteriology	3(2-1)
EPH-401	Epidemiology and Public Health	3(2-1)
PATH-402	Clinical Pathology	3(1-2)
PARA-401	Clinical Parasitology	2(1-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

BS Microbiology

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
MICRO-501	Genetic Engineering & Biotechnology	3(2-1)
MICRO-503	Applied Immunology	3(2-1)
MICRO-505	Marine and Fresh Water Microbiology	3(2-1)
MICRO-507	Soil Microbiology	3(2-1)
MICRO-509	Food and Dairy Microbiology	3(2-1)
MICRO-511	Basic Bioinformatics	3(2-1)
Total Credit Hours		18

SEMESTER -VI

Course Code	Course Title	Credit Hours
MICRO-502	Medical Microbiology	2(1-1)
MICRO-504	Systematic Virology	3(2-1)
MICRO-506	Environmental Microbiology	3(2-1)
MICRO-508	Industrial Microbiology	3(2-1)
ZOOL-302	Animal Biodiversity	2(1-1)
MICRO-510	One Health	3(2-1)
MICRO-512	Quality Control in Biologics	2(1-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

Semester -VII

Course Code	Course Title	Credit Hours
MICRO-601	Pharmaceutical Microbiology	3(2-1)
MICRO-603	Introduction to Vaccinology	3(2-1)
MICRO-605	Diagnostic Microbiology	3(0-3)
MICRO-607	Biosafety and risk Management	3(2-1)
MICRO-609	Bio-entrepreneurship	2(2-0)
UAM-611	Preparation of Research Project and Scientific Writing	2(1-1)
MICRO-611	Emerging Issues in Microbiology	2(2-0)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER -VIII

Course Code	Course Title	Credit Hours
MICRO-612	Internship/ Research Project	6(0-6)
Total Credit Hours		6



Scheme of Studies

B.Sc. (Hons.) Animal Sciences

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
LM-301	Introduction to Livestock Management	3(2-1)
AN-301	Fundamentals of Animal Nutrition	2(1-1)
ABG-301	Principles of Animal Breeding	3(2-1)
ENG-301	English composition and comprehension	3(3-0)
ANAT-301	Introduction to Veterinary Anatomy	2(1-1)
IS-301/SSH-301	Islamic Studies/Ethics (for Non-Muslims)	3(3-0)
SSH-302	Pakistan Studies	2(2-0)
Total Credit Hours		18

SEMESTER-II

Course Code	Course Title	Credit Hours
LM-302	Principles of Dairy Production	3(2-1)
AR-302	Introduction to Animal Reproduction	3(2-1)
AN-302	Metabolism of Primary Nutrients	2(1-1)
STAT-302	Introductory Statistics	2(2-0)
BIOCHEM-301	General Biochemistry	3(2-1)
ENG-302	Communication and Presentation Skills	3(3-0)
PHYSIO-302	Introduction to Animal Physiology	2(1-1)
UAM-301	Social and Religious Tolerance	Audit
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER-III

Course Code	Course Title	Credit Hours
ABG-401	Introductory Population Genetics	3(2-1)
LM-401	Principles of Small Ruminant Production	2(1-1)
AN-403	Minerals and Vitamins in Nutrition	2(2-0)
PS-401	Introduction to Poultry Science	2(1-1)
AGRON-401	Fodders and Forages	2(1-1)
ZOOL-401	Fish and Fisheries of Pakistan	2(1-1)
ENT-401	Insect Pests of Household, Human and Animals	2(1-1)
ENG-401	Technical and business English Writing	3(3-0)
UAM-302	Citizenship Education and Community Engagement	Audit
Total Credit Hours		18

SEMESTER-IV

Course Code	Course Title	Credit Hours
ABG-402	Introductory Molecular Genetics	3(2-1)
AN-402	Nutrient Requirements of Farm Animals	3(2-1)
LM-402	Animal House Design	3(2-1)
MATH-301	Elementary Mathematics	3(3-0)
FRW-402	Agro-Forestry, Range and Wildlife Management	3(2-1)
CS-301	Computer Science and Information Technology	3(2-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

B.Sc. (Hons.) Animal Sciences

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
ABG-501	Utilization and Conservation of Animal Genetic Resources	3(2-1)
LM-501	Range Livestock Production	3(2-1)
AN-501	Feeding of Farm Animals	3(2-1)
MICRO-510	One Health	3(2-1)
LM-503	Management of Dairy Animals	3(2-1)
AE-501	Human Resource Management	2(2-0)
Total Credit Hours		17

SEMESTER-VI

Course Code	Course Title	Credit Hours
ABG-502	Selection for Economic Traits in Farm Animals	3(2-1)
LM-502	Camel Production	2(1-1)
AN-502	Principles of Poultry Nutrition	2(1-1)
PS-502	Poultry Feeding Practices	2(1-1)
LM-504	Equine Production	2(1-1)
AS-502	Livestock and Poultry Marketing Management	2(2-0)
PATH-502	Pathobiology	2(1-1)
LM-506	Record Keeping in Livestock	2(1-1)
LM-508	Lab and Zoo Animal Management	1(0-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER-VII

Course Code	Course Title	Credit Hours
ABG-601	Introduction to Animal Genomics	3(2-1)
LM-601	Principles of Meat Production	2(1-1)
LM-603	Behavior and Welfare of Farm Animals	2(1-1)
AN-601	Feed Evaluation, Formulation and Processing Technology	3(2-1)
PS-601	Poultry Hygiene and Disease Prevention	2(1-1)
FMP-601	Fundamentals of Mechanized Farming	2(1-1)
AS-601	Remote Sensing and GIS Applications in Animal Sciences	2(1-1)
AS-611	Preparation of Research Project and Scientific Writing	2(1-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER-VIII

Course Code	Course Title	Credit Hours
AS-612	Internship and Research Project	6(0-6)



Scheme of Studies

B.Sc. (Hons.) Poultry Science

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
PS-301	Introduction to Poultry Science	3(2-1)
AN-301	Fundamentals of Animal Nutrition	3(2-1)
ABG-301	Principles of Heredity	3(2-1)
ENG-301	Composition and Communication Skills	3(3-0)
CS-301	Computer Appreciation and Application	3(2-1)
Biochem-301	General Biochemistry	3(2-1)
Total Credit Hours		18

Semester-II

Course Code	Course Title	Credit Hours
PS-302	Poultry Breeding Practices	2(1-1)
PS-303	Poultry Physiology	3(2-1)
MATH-301	Elementary Mathematics	3(3-0)
AN-302	Metabolism of Primary Nutrients	3(2-1)
ENG-302	Communication and Presentation Skills	3(3-0)
SSH-302	Pakistan Studies	2(2-0)
Zool-302	Animal Biodiversity	2(1-1)
SRT-301	Social and Religious Tolerance	Audit
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER-III

Course Code	Course Title	Credit Hours
PS-401	Incubation Principles and Hatchery Management	3(2-1)
PS-403	Poultry Housing and Equipment	3(2-1)
AN-303	Mineral and Vitamin Metabolism	3(2-1)
IS301/SSH-301	Islamic Studies/Ethics (for Non-Muslims)	3(3-0)
Micro-301	General Microbiology and Immunology	3(2-1)
STAT-302	Introductory Statistics	2(2-0)
UAM-302	Citizenship Education and Community Engagement	Audit
Total Credit Hours		17

SEMESTER-IV

Course Code	Course Title	Credit Hours
PS-402	Fancy Bird Production	3(2-1)
PS-404	Poultry Feeding Practices	3(2-1)
PS-406	Broiler Production and Management	3(2-1)
PS-408	Poultry Meat Inspection	2(1-1)
AN-404	Feed Evaluation, Formulation and Processing Technology	3(2-1)
ABG-401	Introductory Population Genetics	2(1-1)
AEE-402	Communication Skills and Leadership Development	2(1-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

B.Sc. (Hons.) Poultry Science

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
PS-503	Layer Production and Management	3(2-1)
ABG-501	Applied Poultry Breeding	3(2-1)
ENG-401	Technical and business English Writing	3(3-0)
FMP-507	Farm Equipment, Structure & Processing	3(2-1)
EPH-505	Epidemiology and Public Health	3(2-1)
Path-505	Poultry Pathology	3(2-1)
Total Credit Hours		18

SEMESTER-VI

Course Code	Course Title	Credit Hours
ABG-502	Introductory Molecular Genetics	3(2-1)
PS-504	Production and Management of Breeder Flock	3(2-1)
PS-604	Rural Poultry Production	2(1-1)
PS-605	Farm Records and Data Analysis	2(1-1)
AN-502	Principles of Poultry Nutrition	3(2-1)
MAB-601	Agri-Business Management, Marketing and WTO	2(2-0)
Micro-510	One Health	3(2-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18

SEMESTER-VII

Course Code	Course Title	Credit Hours
PS-601	Poultry Products Technology	3(2-1)
PS-603	Poultry Marketing and Economics	3(2-1)
PS-506	Poultry Farm Practices	2(0-2)
PS-602	Poultry Farm Management & Biosecurity	2(1-1)
AN-601	Poultry Feed Industry	3(2-1)
PS-611	Preparation of Research Project and Scientific Writing	2(1-1)
Med-501	Poultry Medicine	3(2-1)
QS-302	Quranic studies	Audit
Total Credit Hours		18

SEMESTER-VIII

Course Code	Course Title	Credit Hours
PS-610	Internship	6(0-6)



Scheme of Studies

BS Zoology

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
ENG-301	English composition and comprehension	3(3-0)
SSH-302	Pakistan Studies	2(2-0)
MATH-301	Elementary Mathematics	3(2-1)
BOT-301	Diversity of Plants	3(2-1)
CHEM-1	Inorganic Chemistry	3(2-1)
ZOOL-301	Principles of Animal Life-I	3(2-1)
Total Credit Hours		17

SEMESTER-II

Course Code	Course Title	Credit Hours
ENG-302	Communication and Presentation Skills	3(3-0)
IS-301/SSH-301	Islamic Studies/Ethics (for Non-Muslims)	3(3-0)
STAT-302	Introductory Statistics	2(2-0)
BOT-302	Plant Systematics, Anatomy & Development	3(2-1)
CHEM-11	Organic Chemistry	3(2-1)
ZOOL-302	Principles of Animal Life-II	3(2-1)
UAM-301	Social and Religious Tolerance	Audit
QS-302	Quranic Studies	Audit
Total Credit Hours		17

SEMESTER-III

Course Code	Course Title	Credit Hours
ENG-401	Technical and Business English Writing	3(3-0)
CS-301	Computer Science and Information Technology	3(2-1)
BOT-401	Plant Physiology and Ecology	3(2-1)
CHEM-111	Physical Chemistry	3(2-1)
ZOOL-401	Animal Diversity: Invertebrates	3(2-1)
ZOOL-403	Zoo and Wildlife	3(3-0)
UAM-302	Citizenship Education and Community Engagement	Audit
Total Credit Hours		18

SEMESTER-IV

Course Code	Course Title	Credit Hours
BOT-402	Botany-IV	3(2-1)
ZOOL-402	Animal Diversity: Chordates	3(2-1)
ZOOL-404	Animal Form & Function-I	3(2-1)
ZOOL-406	Animal Form & Function-II	3(2-1)
ZOOL-410	Bioinformatics	3(1-2)
BIOCHEM-301	General Biochemistry	3(2-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

BS Zoology

(Semester V-VI)

SEMESTER-V

Course Code	Course Title	Credit Hours
ZOOL-501	Cell & Molecular Biology	3(2-1)
PBG-501	Principles of Genetics	3(2-1)
ZOOL-503	Physiology	3(2-1)
ZOOL-507	Aquatic Biology	3(2-1)
	Major (Elective)	3
	Major (Elective)	3
Total Credit Hours		18

Major (Elective) Fisheries and Aquaculture

Course Code	Course Title	Credit Hours
ZOOL-510	Aquaculture and Fisheries	3(2-1)
ZOOL-511	Fish and Fisheries of Pakistan	3(2-1)

Parasitology

Course Code	Course Title	Credit Hours
PARA-501	General Parasitology	3(2-1)
PARA-503	Protozoology	3(1-2)

Wildlife

Course Code	Course Title	Credit Hours
WDLF-501	Principles of Wildlife Management	3 (3-0)
WDLF -503	Biodiversity and Wildlife	3(2-1)

SEMESTER-VI

Course Code	Course Title	Credit Hours
ZOOL-502	Evolution & Principles of Systematic	3(2-1)
ZOOL-504	Developmental Biology	3(2-1)
ZOOL-506	Animal Behavior	3(2-1)
ZOOL-508	Biodiversity	3(2-1)
QS-302	Quranic Studies	Audit
	Major (Elective)	3
	Major (Elective)	3
Total Credit Hours		18

Major (Elective) Fisheries and Aquaculture

Course Code	Course Title	Credit Hours
ZOOL-602	Limnology	3(2-1)
ZOOL-604	Aquaculture Nutrition	3(2-1)

Parasitology

Course Code	Course Title	Credit Hours
PARA-502	Helminthology	3(2-1)
PARA-504	Insect Pests of Household, Human and Animals	3(2-1)

Wildlife

Course Code	Course Title	Credit Hours
WDLF-502	Biology of Birds and Mammals in Pakistan	3(2-1)
WDLF-504	Conservation Biology and Wildlife	3(2-1)



Scheme of Studies

BS Zoology

(Semester VII-VIII)

SEMESTER-VII

Course Code	Course Title	Credit Hours
ZOOL-601	Environmental Biology	3(2-1)
ZOOL-603	Zoogeography & Paleontology	3(2-1)
ZOOL-605	Aquatic toxicology	3(2-1)
ZOOL-611	Preparation of Research Project and Scientific Writing	2(1-1)
QS-302	Quranic Studies	Audit
	Major (Elective)	3
	Major (Elective)	3
Total Credit Hours		17

Majors (Elective)

Fisheries and Aquaculture

Course Code	Course Title	Credit Hours
ZOOL-606	Sea Food Technology	3(2-1)
ZOOL-609	Ichthyology	3(2-1)

Parasitology

Course Code	Course Title	Credit Hours
PARA-601	Epidemiology and Public Health	3(2-1)
PARA-603	Clinical Parasitology	3(2-1)

Wildlife

Course Code	Course Title	Credit Hours
WDLF-601	Wildlife of Pakistan	3(2-1)
WDLF-603	Wildlife Diseases and Management	3(2-1)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
ZOOL-612	Project Report/Internship	6(0-6)
Total Credit Hours		06



Scheme of Studies

BS Biochemistry

(Semester I-IV)

SEMESTER- I

Course Code	Course Title	Credit Hours
ENG-301	English composition and comprehension	3(3-0)
IS-301/SSH-301	Islamic Studies/Ethics (for Non-Muslims)	3(3-0)
SSH-302	Pakistan Studies	2(2-0)
BIOCHEM-301	Organic Chemistry	3(2-1)
BIOCHEM-307	Inorganic Chemistry	3(2-1)
BIOCHEM-303	Human Physiology	2(2-0)
BIOCHEM-305	Introductory Biochemistry	2(1-1)
Total Credit Hours		18

SEMESTER -II

Course Code	Course Title	Credit Hours
MICRO-301	Microbiology	3(2-1)
BIOCHEM-302	Carbohydrates & Lipids	3(2-1)
MATH-301	Mathematics	3(3-0)
ENG-302	Communication and Presentation Skills	3(3-0)
PATH-401	General Pathology	2(1-1)
UAM-301	Social and Religious Tolerance	3(3-0)
QS-302	Quranic Studies	Audit
Total Credit Hours		17

SEMESTER-III

Course Code	Course Title	Credit Hours
BIOCHEM-401	Physical Chemistry	3(2-1)
BIOCHEM-403	Proteins & Nucleic Acids	3(2-1)
BIOCHEM-405	Molecular Biology	3(3-0)
ENT-401	Insect Pests of Household, Human and Animals	3(2-1)
STAT-403	Biostatistics	3(3-0)
ENG-401	Technical and business English Writing	3(3-0)
Total Credit Hours		18

SEMESTER-IV

Course Code	Course Title	Credit Hours
ABG-402	Introductory Molecular Genetics	2(1-1)
ABG-406	Genetics	2(2-0)
BIOCHEM-404	Analytical chemistry	3(2-1)
PARA-402	Diagnostic Parasitology	2(1-1)
CS-301	Computer Science and Information Technology	3(2-1)
BIOCHEM-406	Enzymology	3(2-1)
BIOCHEM-408	Biosafety & Bioethics	3(2-1)
QS-302	Quranic Studies	Audit
Total Credit Hours		18



Scheme of Studies

BS Biochemistry

(Semester V-VIII)

SEMESTER-V

Course Code	Course Title	Credit Hours
BIOCHEM-501	Metabolism I	2(2-0)
BIOCHEM-503	Nutritional Biochemistry	3(2-1)
BIOCHEM-505	Immunology	2(2-0)
BIOCHEM-507	Plant Biochemistry	3(3-0)
MICRO-510	One Health	2(1-1)
	Elective	3(3-0)
	Elective	3(2-1)
Total Credit Hours		18

Elective courses

Course Code	Course Title	Credit Hours
BIOCHEM-509	Biofertilizers and their Formulations	3(2-1)
BIOCHEM-511	Bioinsecticides and their Formulations	3(2-1)

SEMESTER-VI

Course Code	Course Title	Credit Hours
BIOCHEM-502	Metabolism II	2(2-0)
BIOCHEM-504	Industrial Biochemistry	3(2-1)
BIOCHEM-506	Biotechnology	2(2-0)
BIOCHEM-508	Bioinformatics	3(2-1)
BIOCHEM-510	Biochemical Techniques	2(1-1)
BIOCHEM-512	Bioenergetics	3(3-0)
QS-302	Quranic Studies	Audit
	Elective	3 (2-1)
Total Credit Hours		18

Elective Course

Course Code	Course Title	Credit Hours
PHYSIO-302	Introduction to Animal Physiology	3 (2-1)

SEMESTER-VII

Course Code	Course Title	Credit Hours
BIOCHEM-601	Bio membranes & Cell Signaling	2(2-0)
BIOCHEM-603	Clinical Biochemistry	2(1-1)
BIOCHEM-605	Environmental Biochemistry	3(2-1)
BIOCHEM-607	Methods in Molecular Biology	3(2-1)
BIOCHEM-609	Current Trends in Biochemistry	3(3-0)
BIOCHEM-611	Preparation of Research Project and Scientific Writing	2(1-1)
QS-302	Quranic Studies	Audit
	Elective	3(2-1)
Total Credit Hours		18

Elective course

Course Code	Course Title	Credit Hours
AE-501	Human Resources Management	3(3-0)

SEMESTER- VIII

Course Code	Course Title	Credit Hours
BIOCHEM-612	Internship	6(0-6)
Total Credit Hours		06



Scheme of Studies

BS Biotechnology

(Semester I-IV)

SEMESTER-I

Course Code	Course Title	Credit Hours
ENG-301	Composition and Communication Skills	3(3-0)
MATH-301	Elementary Mathematics	3(3-0)
CS-301	Introduction to Information & Communication Technologies	3(2-1)
PBiotech-301	Introductory Genetics	3(2-1)
ABiotech-301	Cell Biology	3(2-1)
UAM-301	Social and Religious Tolerance	2(2-0)
Total Credit Hours		17

SEMESTER-II

Course Code	Course Title	Credit Hours
ENG-302	Communication and Presentation Skills	3(3-0)
IS-302/SSH-301	Islamic Studies/Ethics (C)	2(2-0)
Biochem-502	Fundamental Biochemistry	3(2-1)
ENV-302	Basic Chemistry	3(2-1)
IBiotech-301	Molecular Biology	3(2-1)
SSH-302	Pakistan Studies (C)	2(2-0)
UAM-302	Citizenship Education & Community Engagement	2(2-0)
QS-302	Quranic Studies	1(1-0)
Total Credit Hours		19

SEMESTER-III

Course Code	Course Title	Credit Hours
Biotech-601	Agricultural Biotechnology	4(3-1)
Biotech-509	Introduction to Bioinformatics and Functional Genomics	3(2-1)
MICRO-301	Fundamentals of Microbiology	3(2-1)
Biotech-503	Introduction to Biosafety	3(2-1)
Biotech-615	Industrial Biotechnology	2(1-1)
Biotech-617	Animal Biotechnology	2(1-1)
Total Credit Hours		17

SEMESTER-IV

Course Code	Course Title	Credit Hours
PBiotech-402	Recombinant DNA Technology	3(2-1)
ABiotech-402	Molecular Evolution	3(2-1)
STAT-412	Probability and Statistics	3(3-0)
HBiotech-402	Health Biotechnology	2(1-1)
ABiotech-404	Cell and Tissue Culture	3(2-1)
QS-302	Quranic Studies	1(1-0)
Total Credit Hours		15



Scheme of Studies

BS Biotechnology

(Semester V)

SEMESTER-V

Animal Biotechnology

Course Code	Course Title	Credit Hours
Biotech-507	Modern Concepts in Biotechnology	3(2-1)
HBiotech-501	Molecular Pharming and Biopharmaceuticals	3(2-1)
PBiotech-505	Molecular Marker Technology	3(2-1)
HBiotech-503	Gene therapy and therapeutics	3(2-1)
Micro-301	Fundamental of Microbiology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
PBG-505	Cytogenetics	3(2-1)
HBiotech-505	Bio-imaging	2(1-1)
HBiotech-507	Biotechnology approaches to drug resistance	3(2-1)
ABiotech-501	Animal Neurotoxicology	2(1-1)
Total Credit Hours		20

Health/Medical Biotechnology

Course Code	Course Title	Credit Hours
Biotech-507	Modern Concepts in Biotechnology	3(2-1)
HBiotech-501	Molecular Pharming and Biopharmaceuticals	3(2-1)
PBiotech-505	Molecular Marker Technology	3(2-1)
HBiotech-503	Gene therapy and therapeutics	3(2-1)
Micro-301	Fundamental of Microbiology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
PBG-505	Cytogenetics	3(2-1)
HBiotech-505	Bio-imaging	2(1-1)
HBiotech-507	Biotechnology approaches to drug resistance	3(2-1)
HBiotech-509	Biological Fluid Mechanics	2(1-1)
Total Credit Hours		20

Plant Biotechnology

Course Code	Course Title	Credit Hours
Biotech-507	Modern Concepts in Biotechnology	3(2-1)
HBiotech-501	Molecular Pharming and Biopharmaceuticals	3(2-1)
PBiotech-505	Molecular Marker Technology	3(2-1)
PBG-505	Cytogenetics	3(2-1)
PBiotech-503	Molecular Ecology and Evolution	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
IBiotech-505	Principles of Biochemical Engineering	3(2-1)
HBiotech-505	Bio-imaging	2(1-1)
HBiotech-507	Biotechnology approaches to drug resistance	3(2-1)
Biotech-513	Biophysics and Computational Biology	2(2-0)
Total Credit Hours		20

Industrial Biotechnology

Course Code	Course Title	Credit Hours
Biotech-507	Modern Concepts in Biotechnology	3(2-1)
HBiotech-501	Molecular Pharming and Biopharmaceuticals	3(2-1)
PBiotech-505	Molecular Marker Technology	3(2-1)
IBiotech-501	Microbial Biotechnology for Industrial Purposes	3(2-1)
IBiotech-503	Biochemistry and Enzymology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
IBiotech-505	Principles of Biochemical Engineering	3(2-1)
HBiotech-505	Bio-imaging	2(1-1)
HBiotech-507	Biotechnology approaches to drug resistance	3(2-1)
Biotech-513	Biophysics and Computational Biology	2(2-0)
Total Credit Hours		20



Scheme of Studies

BS Biotechnology

(Semester VI)

SEMESTER-VI

Animal Biotechnology

Course Code	Course Title	Credit Hours
Biotech-502	Genomics and Proteomics	3(3-0)
Micro-304	Basic Immunology	3(2-1)
ABiotech-502	Analytical Techniques in Biotechnology	3(2-1)
ABiotech-504	Molecular Diagnostics	3(2-1)
Biotech-510	Nanobiotechnology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
ABiotech-506	Animal Reproduction and Transgenesis	2(1-1)
HBiotech-506	Vaccine Production	3(2-1)
ABiotech-508	Animal Nutrition and Biochemistry	3(2-1)
ABiotech-510	Utilization and Conservation of Animal Genetic Resources	2(1-1)
Total Credit Hours		20

Health/Medical Biotechnology

Course Code	Course Title	Credit Hours
Biotech-502	Genomics and Proteomics	3(3-0)
Micro-304	Basic Immunology	3(2-1)
ABiotech-502	Analytical Techniques in Biotechnology	3(2-1)
ABiotech-504	Molecular Diagnostics	3(2-1)
Biotech-510	Nanobiotechnology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
HBiotech-502	Drug Discovery	2(1-1)
HBiotech-504	Vaccine Production	3(2-1)
Micro-502	Medical Microbiology	3(2-1)
HBiotech-506	Metabolic and auto-immune Disorder	2(1-1)
Total Credit Hours		20

Plant Biotechnology

Course Code	Course Title	Credit Hours
Biotech-502	Genomics and Proteomics	3(3-0)
Biotech-504	Epigenetics	3(2-1)
ABiotech-502	Analytical Techniques in Biotechnology	3(2-1)
PBG-504	Modern Concepts in Plant Breeding	3(2-1)
Biotech-510	Nanobiotechnology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
HBiotech-502	Drug Discovery	2(1-1)
HBiotech-504	Vaccine Production	3(2-1)
PBG-518	IPR and Variety Development	2(1-1)
Biotech-508	Principles of Plant Molecular Physiology	3(2-1)
Total Credit Hours		20

Industrial Biotechnology

Course Code	Course Title	Credit Hours
Biotech-502	Genomics and Proteomics	3(3-0)
IBiotech-506	Biofuel and Biorefinery	3(2-1)
ABiotech-502	Analytical Techniques in Biotechnology	3(2-1)
IBiotech-504	Fermentation Technology	3(2-1)
Biotech-510	Nanobiotechnology	3(2-1)
Elective Courses-Students may opt for five credit hours from elective courses		
HBiotech-502	Drug Discovery	2(1-1)
HBiotech-504	Vaccine Production	3(2-1)
PBG-518	IPR and Variety Development	2(2-0)
Biotech-508	Principles of Plant Molecular Physiology	3(2-1)
Total Credit Hours		20



Scheme of Studies

BS Biotechnology

(Semester VII)

SEMESTER-VII

Animal Biotechnology

Course Code	Course Title	Credit Hours
HBiotech-601	Stem Cell Biotechnology	3(2-1)
Micro-503	Applied Immunology	3(2-1)
ABiotech-601	Model Organisms for In vivo Studies	3(2-1)
Biotech-613	Biotechnology Entrepreneurship	3(2-1)
Biotech-611	Preparation of Research Project and Scientific Writing	2 (1-1)
Elective Courses-Students may opt for five credit hours from elective courses		
Micro-408	General Bacteriology	3(2-1)
Biotech-603	Genome Editing and its Applications	3 (2-1)
ABiotech-603	Animal Parasitology	2(1-1)
ABiotech-505	Animal Infectious Disease	2(1-1)
Total Credit Hours		19

Health/Medical Biotechnology

Course Code	Course Title	Credit Hours
HBiotech-601	Stem Cell Biotechnology	3(2-1)
Micro-503	Applied Immunology	3(2-1)
ABiotech-601	Model Organisms for In vivo Studies	3(2-1)
Biotech-613	Biotechnology Entrepreneurship	3(2-1)
Biotech-611	Preparation of Research Project and Scientific Writing	2 (1-1)
Elective Courses-Students may opt for five credit hours from elective courses		
HBiotech-603	Regenerative Medicine	3(2-1)
Biotech-603	Genome Editing and its Applications	3 (2-1)
HBiotech-605	Human Molecular Genetics	2(1-1)
HBiotech-607	Cancer Biotechnology	2(1-1)
Total Credit Hours		19

Plant Biotechnology

Course Code	Course Title	Credit Hours
Biotech-605	Fundamentals of Seed Molecular Biology	3 (2-1)
Biotech-603	Genome Editing and its Applications	3 (2-1)
PBG-607	Bioinformatics in Plant Breeding	3 (2-1)
Biotech-613	Biotechnology Entrepreneurship	3 (2-1)
Biotech-611	Preparation of Research Project and Scientific Writing	2 (1-1)
Elective Courses-Students may opt for five credit hours from elective courses		
FST-621	Food Biotechnology	3(2-1)
PBG-615	Genomics in Agriculture	2(1-1)
PBG-613	Biosafety Measures in GM Crops	2(1-1)
PBG-507	Germplasm Resource of Field Crops	3(3-0)
Total Credit Hours		19

Industrial Biotechnology

Course Code	Course Title	Credit Hours
IBiotech-601	Industrial Bioprocessing	3(2-1)
IBiotech-631	Protein Engineering and Purification	3(3-1)
IBiotech-605	Bioelectronics and Biosensor	3(3-1)
Biotech-613	Biotechnology Entrepreneurship	3 (2-1)
Biotech-611	Preparation of Research Project and Scientific Writing	2 (1-1)
Elective Courses-Students may opt for five credit hours from elective courses		
ABiotech-601	Model Organisms for In vivo Studies	3(2-1)
FST-621	Food Biotechnology	3(2-1)
PBG-613	Biosafety Measures in GM Crops	2(1-1)
Biotech-615	Industrial Biotechnology	2(1-1)
Total Credit Hours		19



Scheme of Studies

BS Biotechnology

(Semester VIII)

SEMESTER-VIII

Course Code	Course Title	Credit Hours
HBiotech-612	Internship and External Evaluation/Research Project	06(0-6)
Total Credit Hours		06

Course Code	Course Title	Credit Hours
ABiotech-612	Internship and External Evaluation/Research Project	06(0-6)
Total Credit Hours		06

Course Code	Course Title	Credit Hours
IBiotech-612	Internship and External Evaluation/Research Project	06(0-6)
Total Credit Hours		06

Course Code	Course Title	Credit Hours
PBiotech-612	Internship and External Evaluation/Research Project	06(0-6)
Total Credit Hours		06



UNDERGRADUATE STATUTES AND REGULATIONS





UNDERGRADUATE STATUTES AND REGULATIONS

THE STATUTES AND REGULATIONS RELATING TO THE DEGREES AWARDED BY MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE, MULTAN

I. STATUTES

1. In these Statutes unless there is anything repugnant in the subject or context;

- (i) "Audit Course" means a course attended without any liability of taking its examination.
- (ii) "Credit Hour" means the successful completion of a course of one semester hour in theory or 2-3 semesters' hours in practical per week. One credit hour will be equal to 50 minutes student teacher contact per week for 16 weeks and for laboratory/practical work its duration will be 2-3 hours.
- (iii) "Deficiency Course" means a course in which a student has been adjudged deficient by a competent body of the University.
- (iv) "Non Credit Course" means a course of study, successful completion of which would not be a requirement for the degree.
- (v) "Semester" means teaching time of 19 weeks inclusive of admission, conduct of examination, preparation and declaration of results etc. and gazetted holidays.

2. Duration & Medium of the course

- (i) The minimum number of semesters for completing the course for the degrees of B.Sc. (Hons.) Agriculture, B.Sc. (Hons.) Environmental Science, B.Sc. (Hons.) Agricultural and Resource Economics, B.Sc. (Hons.) Human Nutrition and Dietetics, B.Sc. (Hons.) Home Economics, BBA-Agri. Business, BS Computer Science, BS Data Science, BS Information Technology, B.Sc. Agro-Industrial Engineering and Technology, B.Sc. (Hons.) Poultry Sciences, B.Sc. (Hons.) Animal Science, BS Microbiology, BS Biotechnology, BS Biochemistry, BS Medical Laboratory, BS Public Health and BS Zoology shall be eight.
- (ii) The medium of instructions and examinations shall be English except in the case of Islamic Studies, which shall be in Urdu.

3. Duration of Semester

- (i) There will be two semesters in each academic year, Winter and Spring of 19 weeks each. The commencement of the





UNDERGRADUATE STATUTES AND REGULATIONS



semesters will be according to the academic calendar.

Explanation: Out of 19 weeks, 16 weeks shall be the actual teaching time, the rest may be utilized for admission, conduct of examinations, preparation and declaration of results etc.

- (ii) There will also be a summer session of 8 to 10 weeks duration as part of an academic year, and shall be optional. Students who wish to pass 'F' grade(s) and to improve 'D' grade(s) course(s) may enroll in summer session in the courses offered. It shall not count towards residential requirements.

4. Scheme of Studies

The schemes of studies for various degree examinations shall be as given in the Appendices appended to the Statutes. This schedule may be amended from time to time.

5. Minimum Requirements for various Degrees

The minimum credit requirement for instituting the various degrees shall be as follows. The limit of credit hours may be increased/decreased from time to time according to the requirements or as prescribed by HEC.

Sr. No.	Degree	Credit Hours
1.	B.Sc. (Hons.) Agriculture	141 credit hours for duration of 8 semesters
2.	B.Sc. (Hons.) Environmental Science	136 credit hours for duration of 8 semesters
3.	BBA Agribusiness	132 credit hours for duration of 8 semesters
4.	B.Sc. (Hons.) Agricultural and Resource Economics	138 credit hours for duration of 8 semesters
5.	BS Computer Science	133 credit hours for duration of 8 semesters
6.	BS Data Science	130 credit hours for duration of 8 semesters
7.	BS Information Technology	135 credit hours for duration of 8 semesters
8.	B.Sc. (Hons.) Home Economics	135 credit hours for duration of 8 semesters
9.	B.Sc. Agro-Industrial Engineering Technology	139 credit hours for duration of 8 semesters
10.	BS Poultry Science	131 credit hours for duration of 8 semesters
11.	B.Sc. (Hons.) Animal Science	134 credit hours for duration of 8 semesters
12.	BS Microbiology	131 credit hours for duration of 8 semesters
13.	BS Zoology	129 credit hours for duration of 8 semesters
14.	BS Biochemistry	131 credit hours for duration of 8 semesters
15.	BS Medical laboratory	132 credit hours for duration of 8 semesters
16.	BS Public Health	129 credit hours for duration of 8 semesters
17.	B.Sc. (Hons.) Human Nutrition and Dietetics	141 credit hours for duration of 8 semesters
18.	BS Biotechnology	133 credit hours for duration of 8 semesters



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II. REGULATIONS

1. ADMISSION REQUIREMENTS

i. Minimum Academic Requirements

The relevant qualification/requirements for various undergraduate degree programs are as under:

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	Minimum 50% of total mark
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	
5	BS Computer Science/BS Data Science /BS Information Technology	1. F.Sc. (Pre-Engineering/Pre-Medical)/ ICS/ A-level students (with Mathematics/Biology) 2. Minimum 50% marks in intermediate 3. DAE (specialized in electrical, mechanical, electronics and Telecommunication) (two (02) reserved seats only). Note: Students of F.Sc. (Pre -Medical)/ A-level students (with Biology) must have to take deficiency courses of Mathematics of 6 credit hours within one year of their regular studies.	
6	B.Sc. (Hons.) Home Economics	F.Sc. Pre-Medical/ Pre Engineering/ FA Home Economics/A-Level	
7	B.Sc. Agro-Industrial Engineering Technology	F.Sc. (Pre-Engineering, Pre-Medical, Pre-Agriculture)/ICS/A-Level/DAE (Three Years)	
8	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)	
9	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).	
10	BS Microbiology	Intermediate science (Pre-medical) or Equivalent	
11	BS Zoology	F.Sc. (Pre -Medical) or Equivalent	
12	BS Biochemistry	F.Sc. (Pre -Medical) or Equivalent	
13	BS MLT	F.Sc. (Pre -Medical) or Equivalent	
14	BS Public Health	FA/F.Sc. (Pre-Medical) Pre-Engineering) or Equivalent	
15	BS Biotechnology	F.Sc. (Pre -Medical) or Equivalent	
16	B.Sc. (Hons.) Human Nutrition and Dietetics	Intermediate science (Pre-medical), A-Level	



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get employment after securing admission in the University shall submit written permission from their employer for joining the University as a student.

vi. Other Admission Requirements

- a) The schedule of fees /dues payable by the candidates selected for the admission shall be as prescribed.
- b) The University Authorities shall have the discretion to refuse admission in any case without assigning any reason.
All admissions secured by providing wrong information or concealment of relevant information or the admissions made in contravention of these Regulations shall be void/liable to be cancelled.
- c) Medical Certificate shall be submitted by selected candidates at the time of payment of dues by the Medical Officer (MO) appointed by the University.
- d) The selected Candidates shall present at the time of admission, the following documents in original and two sets of attested photocopies of these Certificates i.e. Academic Certificates, Hafiz-e-Quran Certificate, Under taking and Medical Certificate.
- e) Lists of selected candidates will be displayed on the notice board/website of Muhammad Nawaz Shareef University of Agriculture Multan, Old Shujaabad Road Multan.

The Admission Committee of the MNSUA, Multan will entertain the appeals of the aggrieved persons regarding admission.

2. DEFICIENCY

If the schedule of courses pursued by a candidate does not provide adequate background for the 1st degree course which he/she intends to take up, he/she may be required to make up the deficiency by taking one or more additional course(s) of deficiency level as may be prescribed by the Admission and Prospectus Committee.

3. TIME FOR ADMISSION

The candidates may be admitted at the beginning of the Winter Semester of each academic year. They are required to deposit dues/complete other admission/enrolment formalities within the dates notified by the Admission and Prospectus Committee, failing which his/her admission shall stand cancelled automatically. Provided that the admission of such candidates may be allowed by the Vice-Chancellor subject to availability of seat and on the recommendations of the Admission and Prospectus Committee till such time as it does not conflict with the prescribed requirements of 75% attendance in lectures and practicals of each subject which will be counted from the notified date of commencement of classes for fresh entrants.





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Twenty Marks are added to the Academic marks in the H.S.S.C or equivalent Examination of the applicant who is Hafiz-e-Quran. The Candidates gets the benefit only if he/she has filled in the necessary column provided in the application form, and submitted the documentary proof of Hafiz-e- Quran. Moreover, Hafiz-e-Quran applying for admission will have to appear before a Committee constituted by the Vice Chancellor, MNSUA, Multan and get a Certificate from the Committee.

- a) Determination of merit in the case of equal percentage of admission marks: if two or more applicants have equal marks, they shall be treated at par and shall be admitted.
- b) The admission to B.Sc. (Hons.) Agriculture shall be made on the basis of common "Scheme of Studies" for first four semesters. On completion of four semesters, the candidates have a choice to opt any of the offered Major Subjects which will be exercised on the basis of their CGPA secured at the end of 4th semester, order of preference and availability of seats in the respective discipline.
- c) Both males and females are eligible to apply.

ii. Age

A candidate must not be more than 23 years of age on the last date of admission forms submission, provided that after provisional selection, the Vice-Chancellor may relax upper age limit in very exceptional cases on the recommendations of Admission and Prospectus Committee.

iii. Domicile

The candidate domiciles in other Provinces but passing Intermediate examination from the Board of Intermediate and Secondary Education of the Punjab may be considered for admission against Provincial quota of the respective Province.

iv. Affidavit

Every candidate and his/her parent/guardian shall at the time of admission give an affidavit/undertaking on stamp paper, that candidate shall not indulge in politics and shall follow University Rules and Regulations, failing which candidate shall not be allowed admission/to continue his/her degree. In the event of violation of such an undertaking after admission, he/she shall be expelled from the University without Notice. The finding with regard to "indulgence in politics" given by the Head of the Institution under his seal and signature shall be final and shall not be questioned except only before the Supreme Court of Pakistan. (Added under decision of Supreme Court of Pakistan dated 01-07-1992 on a Human Rights cases Nos. 175,218/1992).

v. Permission for In-service candidates

Candidates who are in the service of Government /Semi Government or Autonomous Organization at the time of admission or seek /





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Explanation: Admission/Enrolment will only be considered completed when UG-I form is deposited to the Dean Office of respective Faculty. Only depositing of fee will not serve the purpose.

4. ENROLMENT

- (i) A candidate admitted to the course shall for so long as he/she has not completed all the requirements for the degree, enroll himself/herself for each semester subject to the maximum admissible limit of 12 semesters including terminal summer session, failing which his/her admission shall stand cancelled. In case a student discontinues a semester without permission, he/she may seek re-admission, in the same semester next year with the approval of the Vice Chancellor on the recommendations of the Admission and Prospectus Committee or in the subsequent year, provided that he/she has not already exhausted the maximum residential requirements for the course. In case a student does not avail both the admissible opportunities for seeking re-admission, he/she shall not be eligible for re-admission in future. Provided that after the first eight semesters, a candidate may enroll in the semester in which his/her failing/remaining subject(s) is/are offered in accordance with his/her "Scheme of Studies" subject to the maximum admissible limit of 12 semesters. Provided further that the semester meant for Internship as per approved scheme of studies shall be meant for Internship only.

Clarification of Regulation 4(I)

The four semesters provided in excess of the normal duration of the course have to be treated as exactly identical to the original minimum duration in matters of regulating the course conduct. This provision does not place any bar on the students' right to discontinue their studies during these extra four semesters. But what is inviolable in their case is their consecutive nature. One cannot skip a semester during this extra period and recover it beyond the maximum admissible semesters after it has ended. For instance, if a student discontinues studies in the 11th semester, and the course in question is not offered in the next 12th semester, he/she cannot claim a right to further enroll in the next (13th) semester, except that he/she avails himself/herself of the terminal summer session. He/she has come to the end of his/her studies. The law provides him/her no further chance. Provided further that the semester meant for Internship as per approved scheme of studies shall be meant for Internship only.

- (ii) An application for enrollment on the prescribed form (UG-I) accompanied by the prescribed fee paid receipt, shall be presented by regular students in Dean Office of respective Faculty on the days notified by University. The date for enrolment with normal late fee will also be announced by the University in the same notification. Provided that after the expiry of last date with normal late fee notified by the University, the Competent Authority (Dean/Director as the case may be) may permit a student for late enrollment on payment of prescribed double late fee (Fee within one week after expiry of single late fee notified). Provided further that the Vice-Chancellor may allow late enrolment to a student after the expiry of seven days period granted by the Competent Authority.





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This permission will be granted under special circumstances in individual cases on the recommendations of the Prospectus and Admission Committee on the written request of a student on payment of double late fee till such time as it does not conflict with the prescribed requirement of 75% attendance in lectures and practicals of each subject which will be counted from the date of commencement of regular semester. After the expiry of prescribed period, permission for late enrollment shall not be granted in any case. In that eventuality, the concerned applicant will be treated as discontinued studies without permission of the Competent Authority and his/her request for continuation of studies, if received, may be dealt with in accordance with the provisions of relevant regulations.

5. MINIMUM AND MAXIMUM CREDIT HOURS

A. Regular Semester

- a) Each student shall register himself/herself in the first and second semesters for all the credit hours prescribed for these semesters. In subsequent semester(s), he/she shall have to register for courses maximum 20-23 credit hours for undergraduate programs.
- b) In two semesters falls before the semester meant for internship, a student may register himself/herself up to 27 credit hours for undergraduate degree programs. Provided further that the Dean of respective Faculty may allow to enroll extra credit hours on the written request submitted by a student well in time up to 30 credit hours subject to the condition that he/she will complete his/her degree after enrollment of extra credit hours.
- c) No course shall be offered during the regular semester which does not fall within the "Scheme of Studies" in the respective semester.

B. Summer Session

- a) The students who wish to pass 'F' and or to improve 'D' grade(s) may enroll during the summer session normally for not more than 12 credit hours.
- b) After 8th regular semester of four years degree programs, if a student has yet to qualify fail courses of more than 16 credit hours, he/she will enroll only up to the normal limit of 12 credit hours, which may include 'F' and 'D' grade courses. He/she will enroll the remaining course(s) in the forthcoming regular semester(s) or the summer session(s) following as per scheme of studies.
- c) In summer sessions following 8th, 10th and 12th regular semesters for the students of four years degree programs and a student may enroll fail course(s) only, upto 16 credit hours with the permission of the Competent Authority provided that he/she will complete her/his degree program after that session. In this situation, he/she will not be able to enroll any "D' grade course(s).



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- d) In summer session double classes will be held to compensate the normal study hours of a regular semester. The prescribed attendance requirements and relevant Regulations will strictly be adhered. Departmental Chairpersons will decide the teacher(s) for the summer session.

6. NUMBER OF COURSES

The courses will be numbered to a scheme such as B.Sc. (Hons.) Agriculture 1st and 2nd semester (301-302), 3rd and 4th (401-402) and so on. This number will be preceded by two to four letters indicating the field of study i.e. AGRON-301.

7. IMPROVEMENT OF 'D' GRADE

- (i) In any regular or summer session a student may repeat once those course(s) of the previous semester(s) in which he/she has secured the lowest grade i.e.'D' only within the prescribed limit of credit hours. However, after completion of courses prescribed under the 'Scheme of Studies', a student stands ineligible to enroll 'D' grade course(s) for improvement of CGPA even if she/he has not exhausted the maximum admissible limit of semesters.
- (ii) Any improved grades will substitute 'F' and 'D' grades of the previous semester for calculating CGPA but 'F' and 'D' grades will form part of the transcript.

8. EXAMINATION AND WEIGHTAGE

- (i) A mid-term examination will be held during 9th week of the semester which shall carry 30% of the total marks allocated for the course. This examination shall be conducted by the teachers concerned who shall determine the form of the examination.
- (ii) In addition, quizzes, special home assignments and/or term papers shall carry 10% of the total marks allocated which shall uniformly split over the whole semester. The final examination to be held at the end of the semester shall carry 60% of the total marks allocated.
- (iii) For the purpose of evaluation, one credit will carry 20 marks e.g. a 4 credit course will carry 80 marks. These marks will be divided in accordance with the credit assigned to Theory/Practical of each course.

9. UNIFORMITY/STANDARD IN TESTS

Examination Committee will examine all problems regarding uniformity/standards in tests, examinations, assignments etc. before the declaration of results for the semester, or any appeal from the student or teacher of any other related matter. The decision of the Committee shall be final. The students will be permitted to go through their answer books in the presence of teachers concerned within three days before the award list is sent to the Controller of Examinations.



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10. PRACTICAL EXAMINATION

The practical, each laboratory experiment, exercise, operation etc., shall be considered an examination and 40% marks shall be assigned for overall general performance and 60% for the final examination.

11. DECLARATION OF RESULT

- (i) The result of all the examinations shall be completed and delivered within 7 to 10 days of the date of examination under sealed cover to the Controller of Examinations at the end of each semester.
- (ii) One copy of the award of each subject shall be forwarded to the Faculty Dean and Departmental Chairperson under sealed cover.
- (iii) GPA/CGPA at the end of 1st, 2nd and subsequent Semesters: A student is required to secure minimum GPA 0.5 at the end of first and CGPA 0.75 after 2nd semester enabling him/her to continue studies, failing which he/she will cease to be on the rolls of the University. In 3rd or any subsequent semester(s), a student is required to secure a minimum CGPA of 1.00, so that he/she feels impelled to get the minimum CGPA of 2.20 required for qualifying for the award of the degree, failing which he/she would cease to be on the rolls of the University and shall not be re-admitted afresh in the University.
- (iv) Calculation of GPA/CGPA: GPA/CGPA will be calculated at the end of each semester in accordance with the relevant Regulations.

12. MINIMUM PASS MARKS

In order to complete a course successfully, a student is required to obtain at least 40% marks each in Theory and Practical separately.

13. INCOMPLETE GRADE

No makeup examination shall be given to a student who does not appear in Mid-term examination. In case a student is unable to appear in one or more courses in the Final Examination of semester on medical ground, he may be allowed to appear in the Special Final Examination to be arranged by the Department provided:

- a) He/She fulfills the conditions of having attended the prescribed number of lectures as laid down in the regulations.
- b) He/She is laid down as an indoor patient of a recognized Hospital, or if lie/she is not hospitalized as defiance above, the candidate shall be examined by the Medical Superintendent of Civil Hospital who may certify the inability of the student to appear in the examination or otherwise.
- c) Application of the student must reach the department on or before the day of Examination.
- d) Such a student shall be driven incomplete grade ('I' Grade). He shall be required to appear in the Special Final Examination to semester to be held within four weeks from the commencement of the next semester.
- e) He shall also be required to follow the schedule of the next semester.
- f) The student shall have to pay a fee of Rs. 1000/- per course for special final examination.



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14. GRADE POINT AVERAGE

- (I) Grade points will be as follows: 4 for A, 3 for B, 2 for C, 1 for D and Zero for F or failure. W for withdrawal and I for Incomplete may also be used. Maximum grade point average: 4.00, Minimum grade point average for obtaining a degree: 2.20

Grade	Value	Marks	Remarks
A	4	80 -100%	Excellent
B	3	65 -79%	Good
C	2	50 -64%	Satisfactory
D	1	40 -49%	Pass
F	0	Below 40%	Fail

- (i) The grade point will be worked on the basis of percentage of marks obtained by a student in each course separately according to conversion table and not on the percentage of total marks obtained by a student.

15. ATTENDANCE REQUIREMENTS

- (i) A candidate with less than 75% of the attendance in Theory and Practical of each course separately shall not be allowed to take the final examination of the course in a semester. Provided that the period of absence in the case of participation in co- curricular/sports activities with the permission of Competent Authority may not be counted.
- (ii) The teacher concerned shall send the attendance percentage to the Dean Office of the respective Faculty through the Chairman of the Department, prior one week to final exam for each course, theory and practicals separately on the prescribed form.
- (iii) If a student fails to fulfill minimum attendance requirement, will be treated as discontinued without prior permission of the competent authority and his/her request for continuation of studies, if received, may be dealt with in accordance with the provisions of relevant Regulations.

16. CONDUCT OF EXAMINATIONS

- (i) The final examination of each course (Theory and Practical) shall be held during the last week of a semester at a time and place notified by the Secretary Time-table Committee.
- (ii) All teachers teaching the various sections of a class will set their individual examination papers. The answer books will be marked by the respective teachers individually or collectively. The Coordinator Undergraduate Studies will arrange the supervision of the examination of the course, marking of the answer books and preparation of award lists.



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- (iii) If an enrolled student is unable to sit in the final examination due to illness or under the circumstances beyond his/her control to be determined in each case, may submit a written request to the Competent Authority prior to commencement of final examination of the respective semester. The application must be accompanied with a Medical Certificate issued by a Registered Medical Officer in case of illness. On receipt of request, notification for discontinuation will be issued by the Competent Authority. The student may however, continue his/her studies after enrollment in the same semester next year with the permission of Competent Authority or in the subsequent year but with the permission of the Competent Authority. In case a student does not avail both the admissible opportunities for seeking re-admission, he/she shall not be eligible for re-admission in future. Provided that the Competent Authority condone the above period in special circumstances to be recorded in writing.

17. MARKS/GRADE OF DEFICIENCY COURSE

The marks/grade required to pass a deficiency course shall be the same as in the regulations relating to the examination/course concerned.

18. SCRIPT OF EXAMINATIONS

The script of each examination may be shown to the students by the concerned teacher taken back immediately and then forwarded to the Controller of Examinations within three weeks, who shall preserve the scripts for a year. If a mistake or a discrepancy in the marking of the scripts of a serious nature comes to the notice of the Controller of Examinations, he shall take action to get it rectified in a suitable manner after obtaining proper orders from the Vice-Chancellor.

19. EXAMINATION FEES

University examination fee shall be charged at the prescribed rates.



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Disciplinary Rules and Regulations

Short title, Commencement and Application

The rules and regulations to be implemented in MNS University of Agriculture, Multan (MNS-UAM) are to be addressed as MNS-UAM students (Discipline and conduct) regulations. These rules will be applicable to all the students of MNS-UAM. Any students violating these Regulations will be considered as an act of indiscipline and misconduct.

A. Discipline

No students shall:

- (i) Utter, do, or propagate, anything repugnant to Islam within and outside the confines of the University
- (ii) Say or do anything which might adversely affect the honor and prestige of Pakistan, University teachers and his / her educational institution
- (iii) Smoking in University premises including classroom, laboratory, workshop, library, examination hall and University buses etc.
- (iv) Form, or associate with an organization/ society/ club, or any other body promoting caste distinction and inciting unsophisticated/ linguistic/regional feelings
- (v) Collect money or receive donations or pecuniary assistance privately or on behalf of the University or any University organization except with the written permission of the Competent Authority
- (vi) Stage, incite, or participate in a walkout, strike or any other form of agitation which might create or is likely to create law and order problem for the University and affect or is likely to affect its smooth functioning
- (vii) Indulge in immoral activities, use indecent/filthy language, insolence, wear immodest dress, make indecent remarks, jokes or gesture or behave in an improper manner within University premises
- (viii) Cause disturbance to others or threat his/her fellows and any University official/employ
- (ix) Quarrel, abuse, shout and fight within the bounds of University
- (x) Disturb peace and tranquility of the institution or use force to enter University
- (xi) Damage any kind of property of the University
- (xii) Keep or carry licensed or unlicensed weapons, narcotics, immoral or rebellious literature; and use in-salutary or abusive language or resort to violence against a fellow student or employee of the University
- (xiii) Disobeying the authority





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- (xiv) Use camera cellphone/digital camera for photography and recording (audio/video) in premises of campus unless permitted by the Competent Authority
- (xv) Giving false information/statement, willful suppression of information, cheating, deceiving, stealing, forgery etc.

B. Disciplinary Actions and Penalties

Disciplinary action may be taken in one or more of the following forms depending upon the severity of the offence as per decision of Disciplinary Committee:

- (i) A student may be issued /imposed:
 - a) Warning letter
 - b) A fine of Rs.2000/- as a minor penalty
 - c) A fine of Rs.5000/- to Rs.10,000/- as major penalty

In case the student fails to deposit the imposed penalty/fine within due date he/she will not be allowed to attend his/her lectures and conditions will be applicable as notified in MNSUA/Acc-001/2014, dated: 07.08.2014.

Explanation: A total of three warning letters will be issued to the guilty and the final one will be sent through surface registered mail to his /her mailing address given in admission proforma. Upon failing the compliance of the letter, the concerned student will be rusticated from the rolls of University

- (ii) A student may be placed on probation for a fixed period not exceeding one academic year
- (iii) Withdrawal of financial concessions (installments, fee waivers, stipend etc.)
- (iv) Any loss or breakage of the University property will be recovered
- (v) If during the period of probation he/she fails to improve his/her conduct, he/she may be rusticated or expelled
- (vi) A student may be suspended from the rolls of a University for a period not exceeding two weeks at a time, excluding the suspension if any, not exceeding 10 days, at one time ordered by the competent authorities
- (vii) A student may be rusticated/ expelled, or asked to withdraw from the University in the manner hereinafter mentioned
- (viii) Debarring from seeking admission to higher studies at University for one academic year or forever

C. Reclaiming of damage, breakage or loss of any University property

A student shall be responsible to recover the loss or damage caused by him to any property of the University not more than fifteen (15)





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days of the first notification by the Disciplinary Committee. If the student fails to do so, it will be considered an act against discipline and misconduct, within the meaning of Regulation A (xiii). As a consequence, the student will be struck off from the rolls of University for failure of making good the loss by him. Further, the Competent Authority may take legal proceedings against him in a Court of Law.

D. Regulations Relating to Rustication, Expulsion and withdrawal

Rustication, whenever imposed on University student, shall always mean the loss of one academic year so far as his/her Examination is concerned. The period of absence from the University Teaching Department will, however, depend upon the time of the year when the penalty is imposed. The student under rustication may at the discretion of the competent authority of the University be permitted to rejoin the class in the same Department in the beginning of the next academic year. A rusticated student once re-admitted and again found creating disturbance/ indiscipline, etc. will be expelled from the University. A student committing a major act of indiscipline expelled from a University shall not be re-admitted. Further, the University shall not issue migration certificate to rusticated or expelled student.

E. Code of Honor

The following Code of Honor expresses the basic principles of conduct expected to be followed by students:

- (i) All students must have faith in and respect for the ideology of Pakistan
- (ii) All students in matters of religion must respect the conviction of others
- (iii) Every student is expected to:
 - a) Be loyal to Pakistan
 - b) Obey the laws of the land order as well as the rules & regulation of the University
 - c) Maintain law and order as well as the dignity and prestige of the University
 - d) Protect the property of the University
 - e) Show due respect to elders, teachers and outside visitors
 - f) Work hard and co-operate in completing the courses of study within the prescribed period
 - g) No indulgence in sectarian activities

F. Disciplinary Committee

A Disciplinary Committee of MNSUA, Multan, constituted by the Competent Authority shall investigate, deal with, hear and decide the cases of misconduct and indiscipline among the students on the rolls of the University in accordance with the aforementioned Rules and Regulations and amendments made from time to time as per need.



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G. Appeal

- (i) The student(s) who has/have been rusticated /expelled by the Disciplinary Committee for violation of discipline may submit an appeal to the Vice Chancellor within 15 days of the date of notification of rustication/expulsion or withdrawal
- (ii) The Vice-Chancellor shall have the power to pass such orders as he may deem fit
- (iii) Case of indiscipline/disturbance from students of University shall be referred to the Disciplinary Committee



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Hostel Rules and Regulations

Admission to MNS-UAM hostel

The residents shall abide by the following rules and regulations and other rules as may be framed from time to time by the Competent Authority.

1. The hostel accommodation will be provided to the bonafide students of the University, subjected to the availability of seats.
2. On allotment slip full particulars including recent photograph, permanent address with phone number and complete address of the student will be given.
3. Seats within the hostel are allotted by the Hostel Superintendent on the commencement of the semester on seniority/merit basis, which will be determined by the semester of the study taking into consideration GPA/CGPA and student's behavior during stay.
4. In making the allotment, the hostel authorities will also take into account the conduct and character of a boarder. Those, with penalties being imposed shall lose their seniority.
5. The allotment of such students whose hostel dues are in arrears shall be cancelled.
6. No boarder is allowed to change his/her seat without prior permission of the hostel authorities.
7. The Vice Chancellor and Hostel Warden may refuse admission or expel any student if he/she has any qualms about a student conduct or character.

Hostel fee and subscription

1. Hostel fee and security deposits as determined by the University from time to time are payable by the student in each semester.
2. Hostel allotment of a student shall be cancelled, if, he/she fails to pay hostel dues. However, he/she may seek readmission in a hostel as admissible under rules.
3. Students staying for additional semester/summer session/thesis examination/ research work etc. will have to pay the hostel fee and subscription etc.
4. If any student leaves the hostel without paying hostel dues including mess, canteen and other charges, the amount outstanding against him/her along with a fine equal to 10% of the hostels dues will be recovered at the time of next enrolment.





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5. In case such a student leaves hostel qualifying a degree, the outstanding amount along with a fine shall be recovered at the time of issuance of provisional certificate, degree etc., by the Controller of Examination.

Mess rules

1. Hostel mess will be managed by the students and supervised by the Assistant Superintendent.
2. Nobody other than bonafide student will be allowed to become a mess member. Moreover members will elect their own mess manager / mess committee.
3. Mess manager/mess committee will be responsible for proper maintenance of mess and cleanliness of kitchen, utensils, dining hall and its surroundings.
4. Members will pay their dues to the mess manager on or before 7th of every month. Arrears of previous month must be cleared by 7th of the following month.
5. Meals will be served only in the Dining Hall and room service will not be provided.
6. A member intending to cancel a meal must inform the mess manager a day before, otherwise he/she will be charged for it.

General rules

1. Furniture items such as charpai, table, chair and almirah assigned to a particular room shall not be shifted from that room. The residing students of that allotted room shall return these articles, when leaving the hostel. He/she will also be responsible for any loss or damage of these articles.
2. Students must treat the hostel staff politely. Misbehavior with the staff is strictly prohibited.
3. The hostel staff is not supposed to render any private service to any student. Complaints regarding misbehavior of the hostel staff will be reported to the relevant Assistant Superintendent / Hostel Superintendent.
4. The telephone provided in a hostel is only meant for inter hostel contact/incoming calls only and no local or prank calls will be entertained through these telephones.
5. The students must make entry in the "In/Out Register" kept in hostel.
6. Resident is bound to make entries in the hostel leaving register and mess closure register before leaving for home.
7. The visitors (parents/guardians) are allowed to meet the resident only before the closing time of the hostel. (They should observe the summer and winter closing hours).
8. Every resident has to mark his/her attendance in the office and mess register, those missing at the time of attendance will be considered absent and if they keep on doing this, they may be expelled from the hostel.



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- Day scholars are not allowed to stay in hostel. However, may visit and/ or stay with prior permission from the Hostel Assistant Superintendent/Superintendent along with subscribed charges.
- Security Officer of MNS- University of Agriculture Multan will be responsible for hostel security and public related matters.

Visitors

- Visitor's rights to a hostel premises are reserved.
- Details about the authorized visitors to the hostel along with a photocopy of their CNIC should be submitted to the Hostel administration office at the time of admission to the hostel.
- Authorized visitors will visit only during visiting hours.
- Students are prohibited from giving shelter to any other student/outsider in the rooms. In case of breach, the student will be liable to disciplinary action.
- Parents/authorized guardians of a boarder may be allowed to stay for a night with prior permission of the Hostel Warden/Superintendent. However no male visitors are allowed to enter the female hostel in any case.
- Parents/authorized guardians of the female students are allowed to see the students in a specified visiting room during visiting hours.
- Boarders will observe the hostel opening and closing timings. Boarders who enter after closing time without any prior permission, following action will be taken against them:
 - Verbal warning will be communicated at first instance. In case of unceasingly violation of this rule, warning letter will be issued by the hostel administration.
 - Disciplinary action will be taken against boarder especially female boarder violating rules again and again.

Discipline

All bonafide University students are governed by MNSUA Disciplinary and Conduct rule. However, the following additional rules have been framed to regulate day to day activities of boarders.

- Disciplinary action will be taken against habitual late comers.
- Roll will be called daily at 8:00 to 9:00 p.m.
- No gathering, meeting or group activities of unauthorized student bodies will be allowed within the premises of hostel.
- No religious/social ceremony likely to injure the sentiments of other boarders will be allowed in the hostel.
- Every part of the hostel premises shall freely be opened to the hostel authorities for inspection at any time.



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6. No boarder shall indulge in any amusement which may disturb other boarders.
7. Other than electric lights and fans no electric appliances will be used in a hostel. However, air cooler and exhaust fans can be used after getting prior permission from the Superintendent/Hostel warden. But the boarder will have to pay prescribed amount for this purpose.
8. Before leaving the room, all electric articles must be switched off, even for a short while. Leaving the room with light or fan switched on is an offence punishable with fine.
9. It is the paramount duty of all the residents of the hostels to maintain cleanliness and healthy surroundings both in and outside their rooms and hostel premises.
10. Firearms and other weapons, liquor, intoxicants, hukka, cigarette or other prohibited/ objectionable article is not allowed to be kept or used in the hostel. An addict student will be expelled.
11. Spitting, smoking, defacing hostel premises will strictly be prohibited.
12. Boarders are required to observe necessary precautions for the safe custody of their belongings/valuables. The hostel administration will not be responsible for any loss of property.
13. All cases of sickness must be reported to the hostel authorities for necessary help and assistance to the student concerned.
14. The allotment of a student will be cancelled who remains absent for 30 days from the hostel without prior permission/intimation to the hostel authority. However, he/she may seek readmission as admissible under rules.
15. Breach of any rule of public morals, such as:
 - a. Use of indecent or filthy language in the premises of residential hall.
 - b. Use of immodest, improper and provocative dress.
 - c. Use of undesirable remarks or gestures.
 - d. Disorderly behavior such as fooling, shouting, abusing, quarrelling, fighting, insolence, indecency, profligacy and dishonesty.
 - e. Impersonation perjury, giving false information, willful suppression of information, cheating, deceiving and stealing etc;
 - f. Shouting of slogans derogatory to the prestige of the University or the reputation of its teachers and officers.
 - g. Use of intoxicants, immorality, failure to comply with a penalty imposed by a disciplinary authority.



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- h. Misbehavior with a teacher or any other University official
16. The hostel authorities are responsible for maintaining discipline in the hostel and are authorized to admonish students for any irregularity or breach of discipline.
 17. The Assistant Superintendent may punish a student for breach of any discipline by way of a fine not exceeding to Rs. 500/-, Hostel Superintendent Rs. 1000/- and Associate Hostel Warden or Hostel Warden Rs. 5000/- in each case. Admonitions will be reported in writing to the University authorities for appropriate action.
 18. Boarders violating the above mentioned rules shall be fined, suspended, rusticated or expelled from the hostel. Any rusticated or expelled student will not be readmitted in any university hostel.



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Regulations Relating to Committee on Unfair Means

- a. The Unfair Means Committee shall be notified by the Vice Chancellor of the University for a period of two calendar years. There will be as many committees as the Vice Chancellor deem it. Each committee will comprise of two senior faculty members of the MNSUA and/or other universities. The Controller of Examinations will be ex-officio member and Chairman of each committee. The allocation of the case to a committee will be discretion of the Controller of Examinations.
- b. Committee on Unfair Means shall deal with the cases of the alleged use of unfair means in connection with the Examinations under all systems of examinations.
- c. The committee shall give the accused candidate a reasonable chance of showing cause against the charge leveled against him and afford him a fair opportunity of defense through written response to the charge sheet followed by the personal appearance.
- d. The unanimous decision of the Committee on Unfair Means in dealing with cases of the alleged use of unfair means in connection with the Examinations shall be final. If the Committee on Unfair Means is not unanimous, the matter shall be referred to the Vice Chancellor who shall either decide himself or refer it to the Disciplinary Committee of the University. The decision of the Vice Chancellor/ disciplinary committee shall be final.
- e. If a candidate to whom the decision of the competent authority is communicated has valid reasons to appeal against such decision, he/she may do so within 30 days of the date of receipt of the decision in writing and by depositing Rs. 1000/-. The appeal shall be referred to the Appeal Committee.
 - i. In line with the procedure adopted for Unfair Means Committee the Appeal Committee will be notified for a period of two calendar years and will comprise of Three Senior Faculty Members of MNSUA or other universities who are not part of any Unfair Means Committees of MNSUA.
 - ii. The appellant will be given an opportunity to be heard in person by the Appeal Committee. The decision of the Appeal Committee will be communicated to the appellant. Superintendent of the Examination Hall will register an Unfair Means Case against him/her.
 - iii. The appellant may file a revision against the decision of the Appeal Committee with the Vice Chancellor within 15 days after such decision by depositing a sum of Rs.2000/-. The Vice Chancellor may constitute a review committee and refer the case to it. The review committee will prepare its recommendations for the perusal of the Vice Chancellor who shall decide the case finally.
- f. The accused will appear before the all the committees in person and will not be allowed to be accompanied by anybody including lawyer, family member, friend, or any person.



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- g. Notwithstanding anything to the contrary in these rules, no act or proceeding by the any of these committees to deal with case of alleged use of unfair means in connection with the examinations shall be invalidated merely by reason of the existence of a vacancy or vacancies on the committees; absence of a member; or, by reason of any question regarding the appointment or any member of the committees.
- h. The Unfair Means Case will be registered against a candidate if any of the following happens. The In Charge Examinations/ Superintendent of the Examination Hall will register an Unfair Means Case against him/her.
- i. He/she is found to have in his/her possession or accessible to him some material relating to the subject of Examination of that paper in any format (hand-written, printed, electronic etc.) or
 - ii. Is detected in giving or receiving assistance from any source (including fellow examinees, invigilating/ facilitating staff etc.), or
 - iii. He/she is using or attempting to use any other unfair means in connection with the Examination, or
 - iv. He/she is creating disturbance in the conduct of the examination, or
 - v. He/she is disobeying the supervisory staff
 - vi. A candidate is being impersonated by an impersonator
 - vii. The answer book is smuggled in to the examination hall or smuggled out of the examination hall.
- i. Any candidate detected in giving or receiving assistance, or found guilty of possessing and/or using any cheating material in any format, or allowing any other candidate to copy his/her answer-book, or using or attempting to use these or any other unfair means, shall be disqualified from passing in the subject.
- j. Notwithstanding any other law for the time being in force and without prejudice to any remedy open to the University under such law
- i. Any candidate found guilty of deliberate previous arrangements to cheat in the Examination such as smuggling in another answer-books, smuggling out his answer book, impersonation or misconduct of a serious nature and the person who gets himself/herself impersonated shall be disqualified for a period of not less than one and not more than two years and will be declared as not a fit and proper person to be admitted to any future Examination of the University within the period of disqualification. The university will deny issuance of NOC/ Migration certificate to enforce its decision. The impersonator, if he/she is on the rolls of the University, will be awarded the same punishment as the one who was getting impersonated. If the impersonator is not on the rolls of the University, the Controller of Examinations shall report the matter to the police and get an FIR registered against the impersonator with the permission of the Vice Chancellor. If the impersonator is convicted from the court of law then the case will be sent to the syndicate for possible quashment



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of any degree/ medal/ honor given by the university to the impersonator.

- ii. The actual candidate or the impersonator may, on the expiry of two years including the Examination in connection with which he/she was declared to be not a fit and proper person to be admitted to any future Examination, may as a special case, be exempted by the Syndicate from further operation of this Regulation with the sanction of the Vice Chancellor.
- k. Any candidate using abusive or obscene language in the answer-book shall be disqualified from the Examination of that subject.
- l. Any candidate found guilty of making peculiar remarks in his/her answer book shall be disqualified in that subject.
- m. Candidates guilty of communicating or attempting to communicate, with examiners with the objective of influencing them in the award of their marks, shall be deemed to have used, or attempted to use, unfair means shall be punished accordingly. Communications of this nature addressed to the Controller of Examinations or other officers of the University, shall be treated as falling in the same category and the candidate concerned shall be punished appropriately by the unfair means committee
- n. Any candidate found in possession of fire arms or anything capable of being used as a weapon of offence in or around any Examination Hall, shall be liable to expulsion by the Officer and to disqualification ranging between one to three years.
- o. Possession of cell phone or any similar gadget, no matter if it is switched off, will be considered like having cheating material in possession and will be treated accordingly.



Allocation of Seats for Undergraduate programs for Session-2023

Distribution of Open and Reserved Seats for B.Sc. (Hons.) Agriculture for Session-2023

Distribution of Reserved Seats for a person with disability in all Undergraduate Degree Programs for Session-2023



Allocation of Seats for Undergraduate programs for Session-2023

Sr. No.	Discipline	Seats
1.	B.Sc. (Hons.) Agriculture	850
2.	B.Sc. (Hons.) Environmental Science	50
3.	B.Sc. (Hons.) Human Nutrition and Dietetics	40
4.	B.Sc. (Hons.) Home Economics	60
5.	BS Computer Science (BSCS)	200
6.	BS Information Technology (BSIT)	200
7.	BS Data Science (BSDS)	60
8.	B.Sc. (Hons.) Agriculture and Resource Economic	50
9.	BBA Agribusiness	200
10.	B.Sc. Agro-Industrial Engineering Technology	40
11.	B.Sc. (Hons.) Poultry Sciences	50
12.	B.Sc. (Hons.) Animal Sciences	50
13.	BS Microbiology	100
14.	BS Zoology	200
15.	BS Biochemistry	100
16.	BS Medical Laboratory Technology	150
17.	BS Public Health	50
18.	BS Biotechnology	60
Total		2510

Distribution of Open and Reserved Seats for B.Sc. (Hons.) Agriculture for Session-2023

Sr. No.	Item	Seats
1.	Open Merit Seats	756
2.	Seats for tribal areas of D. G. Khan Division	2
3.	Seats for Balochistan	2
4.	Seats for FATA	4
5.	Seats for KPK	4
6.	Seats for Sindh	4

7.	Seats for Minority	2
8.	Seats for Sports	12
10.	Seats for children of Shaheed/War disable/ Retired/Working defense personnel	6
11.	Seats for real son / daughter of working / retired / deceased teachers of MNSUA Multan	6
12.	Seats for real son / daughter of working / retired / deceased employees (non-teaching) of MNSUA Multan	6
13.	Industrial seats (Nomination from Agri. Industry through PCPA)	6
14.	Seats for Foreign Students	6
15.	Diploma of Associate Agriculture (3 years)/DAS	8
16.	Diploma of Associate Agriculture (3 years)/DAS from Pak German Institute	4
17.	F.Sc. Pre-Agriculture	8
18.	Seats for real son/daughter of Agri. Graduates	8
Total		850

Distribution of Reserved Seats for a person with disability in all Undergraduate Degree Programs for Session-2023

Sr. No.	Item	Seats
1.	B.Sc. (Hons.) Environmental Sciences	1
2.	B.Sc. (Hons.) Human Nutrition & Dietetics	1
3.	B.Sc. (Hons.) Home Economics	1
4.	B.Sc. Agro-industrial Engineering Technology	1
5.	BS Computer Science (BSCS)	1
6.	BS Information Technology (BSIT)	1
7.	BS Data Science (BSDS)	1
8.	BSc (Hons.) Agriculture and Resource Economics	1
10.	BBAA Agribusiness	1
11.	B.Sc. (Hons.) Poultry Sciences	1
12.	B.Sc. (Hons.) Animal Sciences	1
13.	B.Sc. (Hons.) Microbiology	1
14.	BS Zoology	1
15.	BS Biochemistry	1
16.	BS Medical Laboratory Technology	1
17.	BS Public Health	1
18.	BS Biotechnology	1
Total		17



ACADEMIC CALENDER 2023-24



Academic Calendar 2023-24

A	Enrollment Winter Semester 2023-2024	04-09-2023 to 12-09-2023
1.	Commencement of Classes	11-09-2023
2.	Mid-Term Examination	06-11-2023
3.	Final Term Examination	08-01-2024
4.	Termination of Semester (after completion of 19 weeks including examinations)	19-01-2024
5.	Break	20-01-2024 to 28-01-2024
B	Enrollment Spring Semester 2024	29-01-2024 to 02-02-2024
1.	Commencement of Classes	05-02-2024
2.	Mid-Term Examination	01-04-2024
3.	Final Term Examination	03-06-2024
4.	Termination of Semester (after completion of 19 weeks including examinations)	14-06-2024
5.	Break	15-06-2024 to 23-06-2024
C	Enrollment Summer Session 2024	24-06-2024 to 28-06-2024
1.	Commencement of Classes	24-06-2024
2.	Mid-Term Examination	22-07-2024
3.	Final Term Examination	19-08-2024
4.	Termination of Semester (after completion of 19 weeks including examinations)	23-08-2024
5.	Break	24-08-2024 to 01-09-2024



FEE STRUCTURE



FEE STRUCTURE

Sr. No.	Particulars	For Previously Enrolled Students	For New Intake	
		Subsequent Semesters	1 st Semester	Subsequent Semesters
Regular Semester Fee Summary				
1	B.Sc. (Hons.) Agriculture	25,200	37,000	27,700
2	B.Sc. (Hons.) Poultry Sciences			
3	B.Sc. (Hons.) Fisheries and Aquaculture			
4	BBA Agri. Business			
5	BS Zoology			
6	B.Sc. (Hons.) Home Economics			
7	B.Sc. (Hons.) Environmental Sciences			
8	B.Sc. (Hons.) Animal Sciences			
9	B.Sc. (Hons.) Agricultural Resources Economics			
10	BS Biochemistry	30,000	38,500	33,000
11	B.Sc. (Hons.) Microbiology			
12	BS Medical Laboratory Technology			
13	BS Public Health	35,000	47,500	38,500
14	B.Sc. Agro Industrial Engineering Technology	28,000	41,800	30,800
15	B. Sc. Agricultural Engineering			
16	B.Sc. Food Engineering			
17	BS Computer Science	-		
18	BS Information Technology	35,000	48,000	38,500
19	BS Data Science			
20	B.Sc. (Hons.) Human Nutrition and Dietetics	40,000	49,500	44,000
21	Hostel Fee	15,000	16,000	15,000
22	Hostel Fee (F.Sc.-Pre Agriculture)	3,200	6,200	3,200
23	Hostel Fee Foreign Students (USD)	300	500	300



AFFIDAVIT

[On Judicial Paper worth Rs.200/-]

AFFIDAVIT (UNDERTAKING)

A) I, Mr./Miss. _____ CNIC # _____
son/daughter of Mr. _____ CNIC # _____ resident of _____ do hereby declares on oath/solemn affirmation at _____ on _____ that I have been admitted provisionally in the Muhammad Nawaz Sharif University of Agriculture, Multan, in _____ (name of Certificate / Degree), will not indulge in 'Politics' during my studies. In case on having been found indulging in 'politics', the finding/decision of the Vice Chancellor, University of Agriculture, Multan (Head of the institution) shall be final and not be questioned except only before the Supreme Court of Pakistan.

The contents of above affidavit are true to the best of my knowledge and belief and nothing has been concealed.

DEPONENT

B) I, Mr. _____ father/guardian of Mr. /Miss _____ do hereby declare at _____ on _____ on oath/solemn affirmation to the best of my knowledge and belief that whatever is declared above by my son/daughter/deponent is true, and the findings / decision of the Vice Chancellor (Head of the Institution) regarding indulgence in 'Politics', of my son/daughter/deponent will be final and shall not be questioned except before the Supreme Court of Pakistan.

DEPONENT

Attested by:

Oath Commissioner/Gazetted Officer/
Respective Nazim Union Council with
Official Stamp

Name: _____

Designation: _____



DECLARATION

[On Judicial Paper worth Rs.200/-]

(Specimen of declaration/undertaking to be submitted by provisionally selected candidates at the time of enrollment formalities)

DECLARATION

I, Mr./Miss. _____ s/o, d/o _____ resident of _____ have been selected provisionally for admission to _____ (name of certificate/degree) at the Muhammad Nawaz Sharif University of Agriculture, Multan. Accordingly, I hereby declare on oath on solemnly affirm that:-

1. On admission to the privilege of being a student, I shall under take on oath and solemnly affirm to abide by the following:
 - 1.1 that during my stay in the University I shall diligently apply myself to acquire and develop the skills necessary for the practice and advancement of the field of study in which I am enrolled;
 - 1.2 I shall participate fully and whole heartedly in sports, games, extra-curricular activities as would be compatible with my physical traits and mental aptitude;
 - 1.3 I shall have minimum attendance of 75% in order to qualify for sitting in the examination;
 - 1.4 That I shall maintain identity as student of the university by wearing University ID Card and gown as may be prescribed by the University.
 - 1.5 That I shall never use violence or threat of violence or pressure, and in any dispute with other all means and methods shall only be logic, persuasion, petition, appeal ,revision, review and other legal and peaceful methods for the settlement of differences and disputes;
 - 1.6 In case of dispute, if any, with fellow students or teachers or employees of the University, I shall accept the judgment of the authorities constituted by the University for decision or settlement of the wrong doers;
 - 1.7 That I shall abide by all provision of the statutes, regulation and rules as may hereafter be framed by the appropriate authorities of the University. It is certified that the conditions and all the relevant regulations have been read and understand by us.
 - 1.8 I shall not carry with me any objectionable material in the examination hall and shall volunteer to be searched, if necessary before entering examination hall.



DECLARATION

- 2 Further, I undertake on oath and solemnly affirmed to refrain from;
 - 2.1 doing anything which may cause injury and insult to Head of Institution ,teacher, officers and other staff of the Institution;
 - 2.2 holding a gathering, or meeting or taking out processions in any part of University Campus other than areas specified for the purpose;
 - 2.3 Indulge in any kind of unfair means, malpractice in examination and coercion by any means;
 - 2.4 allowing or abetting the entry to the premises of University of punished students, anti social elements or other groups presence of whom on the campus should cause conflict amongst the students;
 - 2.5 bringing into the campus, consuming or encouraging consumption of alcoholic products, drugs and narcotics, and indulging in acts of moral turpitude;
 - 2.6 bringing or keeping any type of weapons within the University premises;
 - 2.7 using or occupying any room or part of any building of the institution without lawful authority;
 - 2.8 misuse or damaging any University property, including, equipment's vehicles, etc. in any manner;
 - 2.9 all such acts and deeds as might bring dis-grace and bad name to the University;
- 3 breach of any above instructions is liable for disciplinary action according to the University rules.
- 4 I undertake that if I am found involved in any unlawful activity/providing incorrect information at any stage of study, violating the above he declaration or using bogus/fake/tempered educational certificate/any other document, the University shall have the right to cancel my admission without assigning any reason.
- 5 Further undertake that I was not involved in any indiscipline and misconduct case(s) during my stay at the institution last attended. In case it is proved anti at a later stage, the University shall have the right to cancel my admission without assigning any reason.

Signature of father/guardian

Date

Signature of the applicant

Please attach attested copies of CNIC/B form of applicant and father/guardian



Fee Refund Policy



Important Instructions

(1) If a candidate (fresh entrant) once admitted on merit, deposits the prescribed dues and enrolls himself/ herself by submitting or not submitting GS-10 Form and subsequently leaves the university under any circumstances, total dues except "admission fee" deposited by him/her shall be refunded as per percentage and time limit given below.

Dues Refund Policy	Time Limit
Full (100%) Refund of Entry fee and total dues/hostel dues deposited excluding admission fee	Upto 7 th day of commencement of classes
Half (50%) Refund of entry fee and total dues/hostel dues deposited Excluding admission	From 8 th –15 th day of commencement of classes
No (0%) Refund	From 16 th day of commencement of classes

(2) If a Regular student after depositing dues leaves the University at his/her own either submitting or without submitting GS-10 form, the normal dues/hostel dues and entry fee deposited by him/her shall not be refunded



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