

PROSPECTUS

MNS - UNIVERSITY OF AGRICULTURE, MULTAN

www.mnsuam.edu.pk







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Muhammad Nawaz Shareef

University of Agriculture

Multan

The information provided in this prospectus is for the guidance for new admissions. Every effort has been made to ensure the accuracy of information contained in this prospectus. The University reserves the right in every case at its discretion and for any reason to introduce changes to the information given including the addition, 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.

Postgraduate Prospectus Committee





Prof. Dr. Asif Ali Vice Chancellor, MNS-UAM

VICE CHANCELLOR'S MESSAGE

I am delighted to extend a warm welcome as you embark on your journey towards higher education at the Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM). Our university has a reputation of excellence in agricultural and allied sciences. We are proud to offer a wide range of postgraduate programs tailored to meet the evolving needs of the agricultural industry and beyond. The MNSUM has been ranked in top 51-100 universities for innovations in industrial applications in 2023 WURI Ranking. Currently, the university is offering 37 postgraduate degree programs, including 13 PhD programs after obtaining the necessary NOCs from the Higher Education Commission (HEC).

As the Vice Chancellor of this university, I am committed to providing an enriching and transformative educational experience for our postgraduate students. Our programs are designed to equip you with up-to-date knowledge, skills, digital literacy, and expertise needed to address the complex challenges facing our world today, particularly in the realm of agriculture, food security, and sustainable development. The realignment of the institute's vision and mission has led to rapid growth in research, innovation, and quality education, which are necessary for the country's development and ultimate financial independence. We have fostered a strong culture of promoting innovative research where scientific dreams are being transformed into reality. Our research ethics are purely based on integrity, accountability, and equal opportunities for all students. The strong industrial linkages of our university and the bond we share with the local and international community have opened new avenues for our students in every sector and strata of the farming community and industries. The unprecedented support from both these sectors is instrumental in nurturing and advancing our university every day.

At MNSUAM, we have a distinguished faculty comprising experienced academics, researchers, and industry professionals who are at the forefront of their respective fields. They are dedicated to mentoring and guiding students throughout their academic journey, fostering a culture of innovation, critical thinking, and interdisciplinary collaboration. Our purpose-built campus, state-of-the-art laboratories, research facilities, field stations and collaboration with allied institutes within the Agriculture Complex provide a conducive environment for conducting cutting-edge research and hands-on training. As a postgraduate student, you will have the opportunity to engage in research projects, publish your work in referred journals, and participate in national and international conferences and symposia. We believe in fostering a culture of scholarly inquiry and encouraging you to push the boundaries of knowledge through your research endeavours. You will also benefit from networking opportunities with fellow students, faculty, and industry leaders, creating valuable connections that will support your future career aspirations.

Moreover, our students are provided with ample opportunities for entrepreneurship during their studies through platforms like the Business Incubation Centre, where they can get their business ideas incubated. Also, paid studentships are offered, so that students can study without any financial burden on their parents. I am proud to proclaim that our experienced and highly qualified faculty, vigilant and profound administration, our well-established offices of research and innovation, and quality enhancement are always there to facilitate the students. Apart from these offices, the plethora of opportunities we provide, from the platform of the Graduate Research Center to co-curricular activities, character and skill-building programs, nurture and nourishes the well-being of our students.

On behalf of the entire university community, I extend my best wishes and welcome you aboard on this exciting chapter of your academic journey. I encourage you to seize this opportunity and make the most of the resources and opportunities available to you. I congratulate you for choosing MNSUAM and accepting the challenge to become good academic and engaged citizens, having both advanced knowledge in your respective fields and the integrity to lead technological progress and agriculture-based economic development in the country.

Prof. Dr. Asif Ali Vice Chancellor



Mandina-tu-Aulya MULTAN 3,721 square kilometers

950 km from Karachi,630 km from Islamabad and356 km from Lahore

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



MNS University of Agriculture, Multan

MNS University of Agriculture, Multan

The city of Multan achieved another students and mentoring them for degree programs has substantially PKR. Faculty development is one of the milestone towards higher education in the professional learning, acquiring increased with the initiation of new degree form of Muhammad Nawaz Shareef knowledge and developing skills to meet University of Agriculture, Multan modern day challenges. Mostly young and technological infrastructure, workshops, seminars and trainings both (MNSUAM). The establishment of a full and dynamic faculty is the distinction of fledge agriculture University was long this University. awaited in this region since majority of the The University is housed in a large 56 students are registered under PhD transformation".

qualified, skillful and dedicated faculty accomplish their research goals.

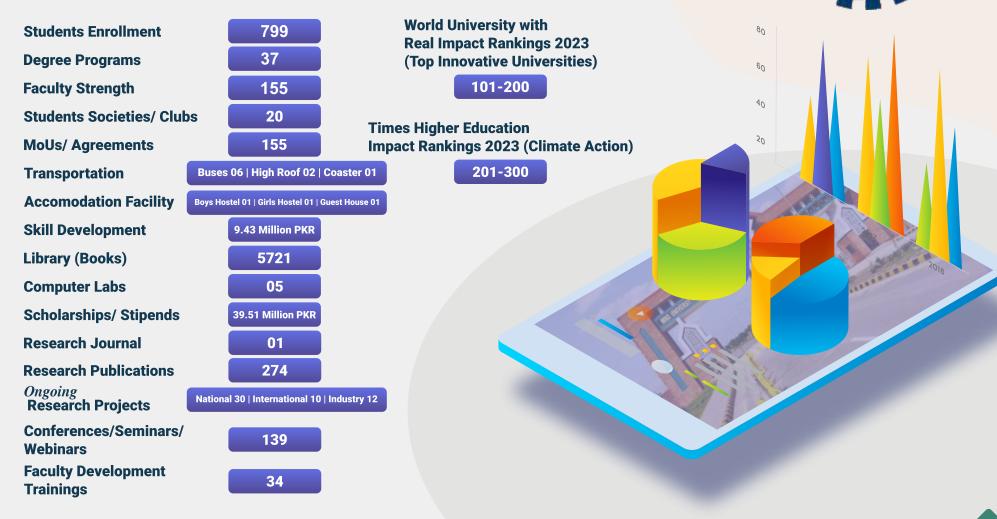
population is directly or indirectly linked Agriculture Complex along with provincial with agriculture for their bread and butter. and federal agricultural research The main objective of the University is to institutes/stations and field service provide systems and leadership for centers. This shows the commitment of professional learning, research and the management to work for betterment outreach to promote agricultural of the people of this area, allied industry production, nutrition, entrepreneurship and the agriculture sector. The University and community service to meet its has several achievements at its credit mission of "food security and knowledge since its establishment in 2012. A central economy through intellectual and social Hi-Tech Laboratory for high quality research and several state of the art The university has been recognized by the laboratories have also been set up in the Higher Education Commission, Pakistan. Institute of Plant Protection, Institute of Since then, it has emerged as a fast- Plant Breeding and Biotechnology, determined to mark its name among the Environmental Science and Computer best agricultural universities in the Science. The postgraduate students of

programs, and strengthening of physical their participation in various conferences, Currently, a total of 448 students are enrolled in M.Sc. (Hons.) Agriculture and degree program. University offers prioritized its community service postgraduate degree programs in the discipline of Agronomy, Entomology, Horticulture, Plant Breading and Genetics, Soil Science, Food Science & Technology. Postgraduate degree programs in Agricultural Economics, Seed Science & Technology, Plant tree plantation campaign. Moreover, the Pathology, Biotechnology, Climate Change, Computer Science, Post Harvest Technology and MS(Management-Specialization in Agribusiness) are in the national and international organizations, pipeline to be launched.

growing Public Sector University that is Department of Horticulture, Soil and a significant number of research publications (83 in total) in national and international journals. A number of development. country. The University has highly University are using these facilities to national and international research projects are running, and research grants with hands on experience of teaching. Student's enrolment to postgraduate, won so far have climbed over 448 million

prime objectives of the University. Hence, at the national and international level is encouraged and facilitated in every possible way. The University has programs via effective outreach in the form of farmer advisory services, weather forecasts, farmer field days, organizing seminars, workshops and conferences on contemporary issues and promotion of kitchen gardening and University in guest of increased connectivity and internationalization has signed 82 MoUs/agreements with including development of partnerships During the year, the faculty has published with high ranked universities of the world for promotion of knowledge, capacity building and strengthening research and

MNSUAM at a *GLANCE*



Muhammad Nawaz Shareef University of Agriculture Multan



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 statuary bodies of the University. The administrative setup of the University is as follows:



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DIRECTORATE OF GRADUATE STUDIES

Directorate of Graduate Studies



Dr. Nasir Nadeem

Director Graduate Studies



Dr. Rao Muhammad Ikram

Aut. Director Graduate Studies

Directorate of Graduate Studies

Vision:

To be a world leader in advancing knowledge, fostering innovation, and addressing global challenges in the field and arranging their approval by of agriculture and allied sciences through cutting-edge research and advanced studies.

Mission:

To cultivate a vibrant research ecosystem that attracts and nurtures top-tier researchers and scholars. To promote cutting-edge research in the Achievements So Far: field of agriculture and allied sciences, leading to significant advancements in science, technology, and humanities.

To foster a collaborative and interdisciplinary research environment, enabling the exchange of ideas and knowledge across disciplines. To translate research findings into practical applications that benefit society and enhance the quality of life. To contribute to the university's overall mission of academic excellence and global recognition.

To maintain the highest standards of ethical conduct in research, promoting integrity, transparency and accountability in all research activities. Functions:

To process the approval of new/revised postgraduate courses through Graduate Study Research Board (GSRB) / Board of Advanced Studies and Research (BASR). Processing of applications for admission to M. Phil. / MS / M.Sc. (Hons.) and Ph.D. programs. Collection of course work and enrolment forms (GS/10) of postgraduate students in each semester. Scrutiny of the synopsis

and thesis, course work programme and supervisory committees of M.Phil./ MS/M.Sc. (Hons.) and Ph.D. students GSRB/BASR. Scrutiny of the thesis of postgraduate students to ensure their proper format as laid down by GSRB. Preparation of agenda and conduct of meetings of GSRB/BASR. Execution of the policies and decisions of GSRB/ BASR.

Directorate of Graduate Studies is determined to exploit its potential for the betterment of the University as well as community. During 2022-23, this office had conducted five meetings of Graduate Studies and Research Board /Board of Advanced Studies and Research wherein several decisions were taken including the following:

- Approval of courses, supervisory committees, titles of the synopses of postgraduate students.
- > Approval of panels of names of examiners for evaluation of a research examination of MSc. (Hons.) /M. Phil/MS students.
- > Amendment in postgraduate regulations.
- Approval of initiation and curriculum/ scheme of studies of 2023-24. Master of Science (Honours) & Doctor of Philosophy Animal Nutrition.
- \geq Approval for initiation and curriculum/ scheme of studies of

Doctor of Philosophy Computer Science.

- Approval for initiation and curriculum/ scheme of studies of Master of Science (Honours) Agricultural Extension.
- > Approval of Initiation, Curriculum/ Scheme of Studies of Master of Science (Hons) Remote Sensing and GIS
- Approval of Initiation, Curriculum/ Scheme of Studies of Master of Science (Hons) **Energy Systems Engineering**
- > Approval of Initiation, Curriculum/ Scheme of Studies of Doctor of Philosophy Agri. Engineering
- Approval of Initiation and Curriculum/Scheme of Studies of Master of Science and Doctor of Philosophy One Health **Degree Program**

Approval of synopses titles and supervisory committees. In addition to above. Director Graduate Studies has conducted admission exams of PhD candidates. Currently, this office is striving for the campaign of new admissions for upcoming academic year

Degree/ Discipline	Program	Duration (Semester)		Admission Criteria	Eligibility
		Minimum	Maximum		
M.Sc(Hons) Agronomy, Agriculture Economics, Biotechnology, Entomology, Food Science and Technology, Horticulture, Human Nutrition & Dietetics, Plant Breeding and Genetics, Plant Pathology, Soil Science , Weed Science	Regular	4	6	 Screening test (50%), B.Sc (Hons) Agri. With major in relevant field of studyfromanyHECrecognizeduniversity/DAIs (Deficiencycoursewill begivenwherenecessary) For Agricultural Economics 1.M.Sc. (Hons.) Agriculture Economics a.A minimum CGPA of 2.5 on a scale of 4.0 in field of B.Sc. (Hons.) Agricultural Economics, B.Sc. (Hons.) Agriculture and Resource Economics, OR A minimum CGPA of 2.50 on a scale of 4.0 in field of BBA Agribusiness, <u>BS Agribusiness and Marketing</u> c. Alt least 50% marks in entry test 	 (a) CGPA = 2.5/4.00 (b) At least 2nd Division (c) Entry Test
M.Sc. (Hons.) Postharvest Management Technology	Regular	4	6	B.Sc. (Hons.) Agriculture in the subject of Entomology, Plant Pathology, Horticulture, Agronomy, Seed Science and Food Science from HEC recognized universities/Degree Awarding Institutes.	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
M.Sc (Hons) Climate change	Regular	4	6	Screening test (50%) Sixteen years of education in following disciplines: Agricultural sciences (All majors)/ B.Sc. (Hons.) Soil and Environmental sciences/ Agri. Engineering/Environmental Engineering/Environmental Sciences/Agri. Economics/ Food science & Technology/Dairy Technology/Dairy Science and Technology/DVM /Animal Husbandry/Poultry Sciences/ Fisheries/Agribusiness from HEC recognized university / DAIs. (Deficiency course may be given to students on the recommendation of supervisory committee where necessary).	(a) CGPA = 2.5/4.00 (b) At least 2 nd Division (45% Marks) Entry test

Degree/ Discipline	Program	Duration Minimum	(Semester) Maximum	Admission Criteria	Eligibility
Ms. Computer Science	Regular	4	6	 BS(CS) 4 year degree program (Minimum 130 credit hour), or computer science conversion course 2 year degree program referred to as "MCS" or MSc Computer science). Candidates having Computer Engineering/ Bachelor of Science in Software Engineering/ Bachelor of Science in Information Technology/ Bachelor of Engineering (Computer and Information System)/ B.Sc. Computer System Engineering (16 year education) and MIT from a recognized institution are also eligible but have to qualify deficiency course(s) before entering in the MSCS. Deficiency courses will be decided by departmental committee 	 (a) CGPA = 2.5/4.00 (b)First division where GPA system not implemented. Entry Test.
M S (Management- Agribusiness Specialization)	Regular	4	6	 BBA (Agribusiness)/B.Sc.(Hons.) Agri. (Agriculture Economics / Agriculture and Resource Economics,Marketing and Agribusiness) (four years degree programs). b. MBA (Agri. Business) (two years degree program) c. M.Sc. (E conomics) (with deficiency courses of one semester as decided by BoS) d. B.Sc. (Hons.) Agri. (all other majors)/ B.Sc. (Hons.) A.H./DVM/ B. Sc. (Hons.) Sciences/ B. Sc. (Hons.) Agri. Engineering/B.Sc. (Hons.) (with deficiency courses of one semester to be decided by BoS of the Department). e. BS Agribusiness and Marketing. e. A minimum CGPA of 2.5 on a scale of 4.0 f. Alt least 50% marks in entry test 	 (a) CGPA = 2.5/4.00 (b) At least 2nd Division (c) Entry Test

Degree/ Discipline	Program	Duration (Minimum	(Semester) Maximum	Admission Criteria	Eligibility	
MS Zoology	Regular	4	6	A candidate must have BS/BSc (Hons)/ MSc Zoology or equivalent degree.	CGPA = 2.5/4.00 At least 2 nd Division Entry Test	
M.Sc. (Hons.) Seed Science and Technology	Regular	4	6	B.Sc. (Hons.) with major in Seed Science and Technology, Agronomy, Entomology, Food Science & Technology, Horticulture, Plant Breeding & Genetics, Soil Science, Biotechnology, Plant Pathology, from HEC recognized Universities/DAIs. (Deficiency courses will be offered to the admitted students on the recommendation of the department if required)	CGPA = 2.5/4.00 At least 2 nd Division Entry Test	
M.Sc. (Hons.) Agricultural Extension	Regular	4	6	A minimum CGPA of 2.50 out of 4.0 in semester system with 4 years Bachelor B.Sc. (Hons) Agriculture Extension or any major of Agriculture. Student having B.Sc. (Hons) Agriculture other than Agricultural Extension major will have enroll deficiency courses as per recommendation of supervisory committee with approval of BoS.	CGPA = 2.5/4.00 At least 2 nd Division Entry Test	
M.Sc. (Hons.) Agro-Industrial Engineering Technology	Regular	4	6	Four years Bachelor's degree in Agro-Industrial Engineering Technology, Industrial Engineering Technology, Chemical Engineering Technology, Mechanical Engineering Technology, Food Science and Technology, Energy Engineering Technology and Industrial Engineering, Industrial Manufacturing Engineering, Industrial Engineering Management, Agricultural Engineering, Chemical	CGPA = 2.5/4.00 At least 2 nd Division Entry Test	

Degree/ Discipline	Program	Duration (Sem Minimum Ma	nester) Iximum	Admission Criteria	Eligibility
M.Sc. (Hons.) Energy System Engineering	Regular	4	6	Eligibility Criteria for Master of Science (Honours) Energy Systems Engineering Entry/Admission Requirement All four year Engineering Programs accredited by Pakistan Engineering Council	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
M.Sc. (Hons.) Agricultural Engineering	Regular	4	6	Four years bachelor's degree in Agricultural/Civil/Mechanical/ Water Resource Engineering from HEC recognized University/Institute.	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
MS Poultry Science	Regular	4	6	B.Sc. (Hons.)/ BS Poultry Science, B.Sc. (Hons.) Agriculture Sciences with Animal Sciences as major subject, B.Sc. (Hons.) Animal Sciences or DVM (registered with veterinary council)	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
MS Fisheries & Aquaculture	Regular	4	6	A candidate must have BS /B.Sc. (Hons.)/ M.Sc. Zoology, Marine Sciences, Applied Microbiology, Biotechnology, B.Sc. (Hons) Animal Sciences, DVM(registered with veterinary council)	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
MS Public Health	Regular	4	6	Candidate seeking admission in Master of Science in Public Health (MSPH) must have 1. Sixteen years of education in following disciplines including with 2.5/4.00 CGPA or equivalent marks (%) MBBS/ BDS (Registered with PMDC), MD (Registered with PMDC),BS/ B.Sc. (16-years) in Nursing (Registered with nursing council),DVM (Registered with veterinary council),Pharm-D or equivalent (Registered with Pharmacy Council),B.Sc. Paramedic (4-Yrs),BS Physiotherapy or	CGPA = 2.5/4.00 or equivalent marks (%) Entry test

Degree/ Discipline	Program	Duration (Semester) Minimum Maximum	Admission Criteria	Eligibility
			equivalent, BS Human Nutrition and Dietetics, BS Microbiology, BS in Allied Health Sciences or Equivalent 2. Sixteen years of education in following disciplines with deficiency courses in MSPH with 2.5/4.00 CGPA or equivalent marks (%) . BS Food Technology, BS Zoology or equivalent degree ,BS Social Sciences (Sociology/Psychology/ Anthropology), BS Environmental Sciences, BSc (Hons)/ BS in Animal Sciences, BSc (Hons)/ BS in Poultry Sciences, Master in Business Administration	
PhD Agronomy, Entomology , Horticulture, Food Science and Technology, Plant Breeding and Genetics, Plant Pathology, Soil Science, Human Nutrition and Dietetics, Agriculture Economics, Biotechnology , Zoology, Seed Science and Technologoy	Regular	6 10	M.Sc. (Hons.) / M.Phil. / MS (18 years of education) in relevant subject from HEC recognized Universities/DAIs.	First Division/CGPA not less than 3.0/4.0 Entry Test (70%) A Research proposal.
PhD Computer Science	Regular	6 10	To be eligible for admission in PhD, a candidate shall possess MS/ MPhil degree in (Computer Science, Information Technology, Software Engineering Data Science, Information Security, Artificial Intelligence. Computer & Information System and Engineering) subject from a recognized university with a minimum CGPA of 3.00 in Semester System and 70% in Annual System.	First Division/CGPA not less than 3.0/4.0 Entry Test (70%) A Research proposal.



POSTGRADUATE STATUES

STATUTES AND REGULATIONS RELATING TO THE DEGREE OF MSC (HONS) /M PHIL / MS IN FULL AND PARTIAL RESIDENCE

I. STATUTES

1.

Duration and Requirements of Degree Program

- (i) The duration for the Degrees of M.Sc. (Hons.)/MPhil/MS shall not be less than four and more than six semesters in full residence and not less than six and more than eight semesters for the University employees admitted as part time students.
 - (ii) a) The employees of the government/other agencies nominated for M.Sc. (Hons.)/M. Phil / MS degree at this University, shall have to take study leave to pursue studies as a regular student, failing which he/she shall not be admitted.
 - b) If an employee of the Govt./Autonomous agencies gets NOC from his/her department / competent authority, he/she will be allowed to get admission as part time student and pursue his/her studies in M.Sc. (Hons.) / M. Phil / MS degree programs provided that he/she is posted at Multan.
 - (iii) The supervisors of M.Sc. (Hons.) / M Phil / MS students shall submit a report with regard to each M.Sc. (Hons.) /M.Phil / MS student showing general progress particularly in research, such report shall be submitted on prescribed form (GS/13) after each semester to the Graduate Studies and Research Board/Board of Advanced Studies and Research through the Chairperson of the Department/Dean concerned.
 - (iv) The medium of instruction and examination shall be English.
- 2. (i) There shall be two semesters (Winter and Spring) of 19 weeks each and a summer session of 8 to 10 weeks in each academic year. The commencement of semesters shall be regulated by the Academic Council.

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

- (ii) a) Summer session shall be optional. Students who desire to take deficiency / compulsory minor courses as approved in their course work programs. Failed courses and the courses in which they are allowed to improve grades under the rules, may be enrolled during this session. It shall not count towards residential requirements.
 - b) In Summer session double classes will be held to compensate the normal study hours of a regular semester and 75% attendance in theory and practical separately for each course, shall be observed.
- 3. The subjects of study for the degree programs as given in schedule-I, may be amended from time to time. A student shall present an acceptable thesis in addition to completing his/her approved Course Work in order to qualify for the award of the degree.
- 4. A student admitted to the degree program shall be required to undertake the following:
 - (i) For the award of M.Sc. (Hons.)/MS/ Equivalent degree candidate will complete 30 credit hours of course work or complete 24 credit hours of course work along with a minimum of 6 credit hours for research work/thesis. Deficiency/compulsory minor/audit course(s) shall not be counted toward the minimum credit hours requirement.
 - (ii) The credit hours in the course work shall be two third from the major and one third from the minor field(s) of study. The minor field(s) of study may be one or two but shall not exceed three.

Explanation:

- For the Department of Computer Science, Information Technology and Agribusiness the Major and Minor courses shall be read as Core and Elective courses respectively¹.
- The ratio of major and minor courses would be 2:1 and shall not apply to credits taken over and above the minimum requirement of 30 credits.

Example: The number of minimum credit hours under major and minor courses will be 20 and 10.

- (iii) The following courses shall be compulsory:
 - a) Courses Stat-705 (Statistical Methods for Social Sciences) shall be compulsory minor for students of Faculty of Social Sciences and Humanities, and Stat-701 (Experimental Statistics) for Faculty of Agriculture and Environmental Sciences, respectively except those who have qualified equivalent course(s) from other HEC recognized institutions.
 - b) Course Biochem-700 (Introduction to Biochemistry) shall be compulsory minor course for students of the Faculty of Agriculture and Environmental Sciences, MNS-UAM except those who have already taken equivalent course(s) from other HEC recognized institutes.
 - c) Courses taken as compulsory minor shall not be counted toward minor field required under Statute 4(ii) but will be counted in GPA/ CGPA.
- 5. The academic matters of the all the departments of the university would be routed through the Dean of the Faculty concerned.

II. REGULATIONS

I. Admission to the Course

- 1. A candidate seeking admission to the degree must:
 - (i) have sixteen years of schooling or 4 years education after F.Sc. (at least 130 credit hours) with at least second division/CGPA2.50 in the degree on the basis of which admission is requested. The admission will be subject to qualify a test.
 - (ii) have a domicile of the Punjab province. Candidate with domicile other than the Punjab province has to produce a nomination letter from his/her respective provincial government against reserved seats if any.
 - (iii) Lists of selected candidates will be displayed on the Notice Boards of Directorate of Graduate Studies, concerned Teaching Department and the University Website. No candidate will be informed individually about his/her selection for admission/withdrawal or cancellation of admission in a Department.
 - (iv) Medical certificate shall be submitted by selected candidates at the time of admission to the effect that he/she is free from any communicable (contagious) disease or mental or physical disability which is likely to stand in the way of his/her pursuing the chosen field of study. Only those medical certificates shall be accepted which have been issued by the University Medical Officers or authority designated by the university itself. Prescribed amount in lieu of medical certificate will be charged in this context.
 - (v) The selected candidates shall present, at the time of admission, the following documents in original and two attested photocopies of these certificates to the Directorate of Graduate Studies for examination and record:
 - a) CNIC
 - b) Academic Certificates

¹Approved by Syndicate in its 22nd meeting held on 03.05.2019.

- c) Hifz-e-Quran Certificate (if applicable)
- d) Medical Certificate

6.

- 2. If the course(s) studied by a candidate in his/her previous degree (on the basis of which admission is requested) does not provide adequate background for the degree program of study, he/she may be required to rectify the deficiency by taking additional course(s) as determined by the respective Departmental Board of Studies.
- 3. Candidates may be admitted at the beginning of each semester. If a candidate fails to complete enrolment, his/her admission shall stand cancelled. However, nominees of HEC, MNS-UAM, foreign countries and other Government organizations, may be admitted up to the end of each semester with the condition that they will enroll without taking any course. They will submit signed GS/10 forms (without any course). The semester enrolled, however, will be counted towards their residential requirements.
- 4. (i) A teacher/researcher of the MNS University of Agriculture, Multan (permanent, temporary, ad-hoc or on contract basis) will be considered for admission as part time student; will be allowed to enroll maximum of two courses and one seminar in a semester and with the payment of prescribed university dues. In case, he/she intends to take maximum credit hours allowed to a full time student then he/she will have to take leave from the University and pay full University dues.
 - (ii) The administrative staff of the MNS University of Agriculture, Multan (permanent, temporary, ad-hoc or on contract basis) will be considered for admission as part time student only under Evening program; will be allowed to enroll maximum of two courses per semester with the payment of prescribed university dues. In case, he/she intends to take maximum credit hours allowed to a full time student, or intends to take courses under morning program then he/she will have to take leave from the University and will pay full university dues.
- 5. (i) The admission to a degree program shall be made by the Graduate Studies and Research Board/ Board of Advanced Studies and Research on the basis of merit list prepared and checked by the Director, Graduate Studies.
 - (ii) Lists of selected candidates would be displayed by the Director Graduate Studies and if needed subsequent lists would be displayed till the last seat is filled up.

Explanation: The last list would be displayed keeping in view that 75% attendance in lectures would not suffer.

(iii) The Graduate Studies and Research Board/ Board of Advanced Studies and Research may refuse admission to a candidate without assigning any reason. **Explanation:** All those students who were awarded minor penalty of fine of Rs. 2000/-and above twice on account of their misconduct during the course of their undergraduate studies as the case may be, shall be debarred from admission to the next study program for a period of two years after completion of their respective degree. After two years, they may be considered for admission to the postgraduate degree on the recommendations of the Students Affairs Committee. In the same context, the students who were awarded a major penalty will be debarred for admission to a degree program for a period of three years. They may be considered for admission after three years after completion of their respective degree, on the recommendations of Student's Affairs Committee.

- (i) A candidate admitted to a degree program shall have to enroll for each semester until submission of thesis.
 - (ii) A student may discontinue enrolled semester before appearing in the final examination with the permission of the Vice Chancellor obtained through the Director Graduate Studies on the recommendations of the Dean on account of sickness duly certified by the University Medical Officer or due to circumstances beyond his/her control.
 - (iii) The facility of discontinuation can be availed only once during whole degree program.
 - (iv) A student so permitted to discontinue is required to resume his/ her studies from next semester on the recommendations of Chairperson/Dean concerned

and notified by the Director Graduate Studies.

7.

8.

9.

(i)

- (v) A HEC fellowship awardees will be allowed to join a training program with the condition that his/her training would not disturb his/her enrolment in the University and will remain intact. On his/her returning and rejoining the University, he/she would have to meet the enrolment formalities (Ex-post-facto) of this period (the whole period of HEC scholarship) and it would also be included in the period of residential requirements of the scholar under relevant statues.
- (i) An application for enrolment on the prescribed form (GS/10), accompanied by proof of fee paid (bank receipt) shall be presented to the office of the Director Graduate Studies on the day(s) notified for enrolment.
 - (ii) The schedule of fees/dues payable by the candidates selected for admission shall be as prescribed. The Director Graduate Studies under special circumstances and on payment of late fee prescribed for this purpose, may permit a student to enroll within ten days after the commencement of the classes.
 - (iii) The Vice Chancellor may allow a student to enroll till the last day of the 4thweek after the commencement of classes under special circumstances, in individual cases and reasons to be recorded, with double late fee prescribed for this purpose.
 - (iv) Enrolment in absentia is not allowed. Student is required to be present in person with a proof of identification (University Identity Card or Computerized National Identity Card etc.) for enrolment.
 - (v) Enrolment will only be considered completed when GS/10 form is submitted to the office of the Director Graduate Studies. Only depositing of fee will not serve the purpose.

Explanation for GS-10 submission: Director Graduate Studies shall increase working days for fee submission alogwith fixing the dates for different departments by pooling them into two or three groups.

- A student shall submit his/her GS-10 form directly to Director Graduate Studies after completing all necessary requirements i.e. filling of GS-10, signing from the concerned teachers, supervisor, concerned Chairperson and Dean of the Faculty.
- Chairpersons of the departments shall make/ ensure presence of all teachers including visiting faculty (if any) during the allocated dates of fee submission for timely submission of GS-10 form. However, in case a teacher is not available due to unavoidable circumstances, the Chairperson may sign on GS-10 form on behalf of the teacher and in case of absence of Chairperson, Dean of the concerned Faculty shall be entitled to sign GS-10 form.
- Advisor of each Department shall ensure that GS-10 form has been correctly filled.
- Students who shall deposit their fee with single late fee or double late fee shall submit their GS-10 form during the prescribed dates².
- (i) If a student fails to enroll in any semester without permission of the competent authority, he/she shall cease to be on the rolls of the University and in case he/she desires readmission, he/she shall have to apply for the same.
- (ii) The Graduate Studies and Research Board/ Board of Advanced Studies and Research may readmit such a candidate subject to payment of Rs.5000/- as readmission fee, full fee of semester(s) for the gap period, and 50% of full fee as per semester(s) gap fee. The period of gap semester(s) will also be counted toward(s) his/her residential period.
- (iii) The GSRB may refuse readmission if the reason(s) presented are not convincing.
 - (a) The supervisory committee of a student for course work and research shall be proposed by the respective Board of Studies during 1st semester.
 - (b) Supervisory Committee shall consist of two teachers from the major field of study and one from the minor field of study. However, an outstanding specialist in a major or minor field of study within/outside the university may be taken as a Co-Supervisor in the Supervisory Committee. The

²Approved by Syndicate in its 22nd meeting held on 03.05.2019.

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adjunct faculty member may act as supervisor. Faculty members of relevant disciplines from MNS UAM may be included as supervisor/member on the supervisory committee.

- (c) Supervisor of the student will act as chairperson of the supervisory committee.
- (d) Supervisory committee proposed by the respective Board of Studies and recommended by the Chairperson and Dean of the faculty concerned shall be approved by the Graduate Studies and Research Board/ Board of Advanced Studies and Research and would be notified by the Director Graduate Studies.
- (e) Supervisory committee may be revised according to the regulation (9-i (a to d) for the reasons of change to be recorded.
- (ii) In case, a student duly recommended by the Chairperson and Dean concerned to conduct his/her complete/part of thesis research in other institution/ laboratory, is allowed by the Director Graduate Studies. The helping scientist may be taken as Co-supervisor on the supervisory committee of the student.
- (iii) The Professor Emeritus may act as supervisor/member of supervisory committee of postgraduate students if he/she is stationed at Multan.
- (iv) Foreign faculty members, HEC National Professors/HEC eminent scientists may act as supervisor/member of the supervisory committee provided that they are appointed for three years.
- (v) Retired teachers of the MNS University of Agriculture, Multan may continue as supervisor/member of the supervisory committee to their previous postgraduate students if they had supervised the students up to the approval of the synopsis. However, on re-employment for three years they may be given supervision of a new student.
- (vi) Adhoc/contract teachers may act as supervisor/ member of the supervisory committee only where there is shortage of regular faculty members. Faculty on Tenure Track System (TTS) will be considered as regular faculty for the subject purpose.
- 10. A student may be permitted to revise his/her GS/10 form within 30 days from the commencement of classes. After this period he/she may be allowed to revise GS/10 form up to 37th day from the commencement of classes on payment of prescribed GS/10 revision fee.
- 11. (i) The admission of a candidate to a degree program shall be provisional in the 1st instance and shall be confirmed only when he/she has qualified the deficiency course(s) if any as determined by the respective Board of Studies.
 - (ii) A regular student is required to qualify prerequisite deficiency course(s) during first academic year (Two regular semester + following summer).
 - (iii) In case, the prerequisite deficiency courses are less than or equal to 6 credit hours, then regular courses can also be enrolled by the student along with deficiency course(s) by observing the maximum limit of credit hours that is allowed per semester under the rule. Moreover, the student must qualify the deficiency course(s) in his/her first semester after admission otherwise his/her admission shall stan cancelled.
- **Explanation:** The simple deficiency courses can be enrolled along with non-specialized courses on case to case basis as per recommendations of Board of Studies. Howevr, the deficiency courses required as a pre-requisite before enrollment of any advance course must be passed before the enrollment of that particular advnce course.
- 12. 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 at any stage.

II. Course of Study

13. All post-graduate courses will be designated as 700 numbers preceded by the suitable alphabets indicating the name of the respective department.

- 14. (i) A full time student can enroll up to 12 credits hours in a semester and 9 credits hours during summer session. However, Graduate Studies and Research Board (GSRB)/ Board of Advanced Studies and Research may relax enrolment up to 3 credits hours for a semester/summer session in special cases.
 - Out of the total number of credits referred to the Statute 4(i), only one credit each shall be earned through Seminar and Special Problem.

Explanation: Students who have irrelevant qualification can enroll up to 15 credits hours as deficiency courses in a semester to fulfill the requirement for the award of degree within the stipulated period.

- (iii) A course can be repeated three times (enrolled four times) at the most. The Controller of Examinations office will mention corresponding repetitions in the result notification and the student shall mention repetition status in the GS/10 form.
- (iv) The Graduate Studies and Research Board/ Board of Advanced Studies and Research, may consider credits earned by a student at another HEC recognized institution, subject to a maximum of 50% of the minimum credits requirements for the degree, on the recommendations of Board of Studies/ Equivalence Committee provided that the contents of the course(s) for which credit is claimed, are identical or similar to the course(s) included in his/her planned course work and the courses for which credit is claimed has not been used for another degree.
- (v) Students would submit their course work program proforma (GS/12) during first semester and Synopsis (GS/5) during second semester of their program of study. However, course work will be completed in minimum duration of three semesters.
- (vi) A course studied to qualify a degree will not be taken/ considered for any other higher degree program.
- (vii) Deficiency courses once qualified will not lapse and shall not be called into question again and need not to be revalidated.
- 15. No course shall carry more than 4 credits.

III. EXAMINATION

(ii)

A. Examination Fee

16. University examination fee shall be charged at the time of enrolment of each semester.

B. Tests and Examinations

- 17. (i) There shall be two examinations mid and final in each semester. In addition to these examinations the teacher shall give home assignments and quizzes etc. to the students. The form of these examinations will be left to the teacher who will be solely responsible for the conduct of examination as well as evaluation in his/her course. The grade given in the course by the teacher shall be final but shall be discussed in the Board of Studies before submission of results.
 - (ii) Only those students, who have at least 75% attendance in theory and practical separately in each course, shall be eligible to appear in the final examination.
 - (iii) A teacher shall report to the Director Graduate Studies through Chairperson and recommended by the Dean, Name(s) of the student(s) who will remain absent (lecture/practical) continuously for a week without prior permission. Director Graduate Studies will cancel/strike off the admission of such students.
 - (iv) Students may seek readmission with the permission of the Director Graduate Studies on the recommendations of the Chairperson and Dean within time line i.e. up to 75% attendance.
- 18. The final examination for a semester shall be held on a date and time and place to be notified by the teacher in advance.
- 19. To pass a deficiency/compulsory minor course(s) a student is required to obtain at least "C" grade and these course(s) once qualified will not lapse and shall not be called into question again and need not to be realidated.
- 20. The scripts of each examination shall be discussed with the students.

21. (i) The mid-semester examination shall be held during 9thweek of the semester which shall carry 30% of the total allocated marks for the course.

This examination shall be held by the teacher concerned who shall determine the form of the examination.

(ii) For the purpose of evaluation, one credit will carry 20 marks e.g. a three credit hours course will carry 60 marks. These marks will be divided in accordance with the credits assigned to theory and practical for each course.

(iii) The following weight age shall be given to the examinations.

a)	Mid-semester examination:	30%
b)	Home assignments/quizzes:	10%
c)	Final examination:	60%
,	Total:	100%

(Fraction in total marks of a course will be rounded to the nearest whole number)

- 22. To qualify a course it is essential to pass separately in the theory and practical examinations.
- 23. (i) The teacher shall send the final award list along with answer sheets of mid, final and practical examinations for the course to the office of the Controller of Examinations within 10 days after the end of a semester.
 - (ii) Graduate Studies and Research Board/ Board of Advanced Studies and Research may condone the delay in result submission up to one semester. A copy of the award list should also be sent to the office of the Chairperson and Director Graduate Studies.
 - (iii) In case of special problem and seminar "I" grade can be awarded in the semester. In case of continuation of special problem and seminar i.e. "I" grade, the students may complete the tasks within next semester without enrolment of the said course. If he/she fails to qualify the said course, he/she will be awarded "F" grade.
- 24. On receipt of the award lists, the Controller of Examinations shall notify the results and send copies to the Director Graduate Studies, Dean and the Chairpersons of the Departments concerned.

C. Grade Point Average

25. Grade point and Equivalence between Letter grading and Numerical grading shall be as follow:

Grade	Value	Marks (%)		Remarks
А		4	80-100	Excellent
В		3	65-79	Good
С		2	50-64	Satisfactory
1		-	-	In-Progress
F		0	Below 50	Fail
10 1 1				

26. If a student fails to obtain CGPA of 2.50 at the end of each academic year (winter, Spring and following summer) his/her admission shall stand cancelled. However he/she may seek fresh admission but only once.

Note: The student who avails only one regular semester (winter/spring) must obtain GPA of 2.50 at the end of summer session of the same academic year to remain on roll.

27. A student, who obtains CGPA of 2.50 or more but less than 2.75 upon the completion of entire approved course work, may be allowed to repeat once the courses of the

M.Sc. (Hons)/MS/M.Phil STATUES

previous semesters in which he/she had obtained the lowest grades in order to improve the CGPA so as to obtain the minimum of 2.75 failing which he/she shall cease to be on the rolls.

28. CGPA of 2.75 out of 4.00 is required to qualify for the award of degree.

D. Thesis Examination

- 29. (I) A student shall be entitled to submit thesis for examination after he/ she has qualified the approved courses work and has also fulfilled the residential requirements. He/she is required to submit E-30 form and thesis examination fee before the submission of semi-final thesis.
 - (ii) The thesis shall be prepared according to the guidelines devised by the each Department and approved by the Graduate Studies and
 - (iii) The thesis duly certified by the Supervisory Committee shall be sent to the external examiner by the office of the Controller of Examinations (CE) for evaluation. A panel of five examiners per student from the list of examiners approved by the Board of Advanced Studies and Research shall be submitted to the CE office by the Chairperson of the respective Board of Studies on or before the submission of thesis.
- 30. The thesis shall be evaluated by a Board of Examiners comprising members of the supervisory committee and one external examiner appointed by the Vice Chancellor from the panel of examiner recommended by the Board of Studies. At least three members of the Boards of Examiners of whom one must be an external examiner shall for the purpose of evaluating the thesis, hold a viva voce examination and such other tests as they consider necessary. The external examiner shall be given reasonable time to go through the contents of the thesis critically. The viva voce examination would be conducted at least after one week of the receipt of thesis by the external examiner.
- 31. The thesis shall be evaluated by the Board of Examiners according to the following numerical and letter grades:
 - (i) There shall be 120 marks corresponding to 6 credit hours allocated for thesis and these may be divided as under:
 - a) Twenty five percent marks will be reserved for the evaluation of technical knowledge of the topic as well as general knowledge about the subject of the degree program.
 - b) Fifty percent marks will be reserved for the subject matter of the thesis such as the originality and justification of research, quality of data, interpretation of data, conclusions drawn and achievements of the objectives of the research.
 - c) Twenty five percent marks will be reserved for technical aspects of presentation such as consistency, illustration, diagrams, references, English grammar, vocabulary and quality of typing.
 - (ii) Total marks so awarded will be converted into a letter grade as prescribed in regulation No. 25 and average grades on the basis of course work and thesis will then be worked out to calculate the final CGPA.
 - (iii) The thesis evaluation will be conducted within six months from the date of submission of thesis in the office of Controller of Examinations, failing which student will be declared/assumed fail in the thesis examination and shall be notified by the office of the Controller of Examination. Under unavoidable circumstances the thesis examination may be conducted through video conference arrangement. However, the Vice Chancellor may allow extension for thesis evaluation up to six months in hardship cases.
 - (iv) Supervisor after consultation with external examiner shall notify the date, time and venue of thesis evaluation.
 - (v) The supervisor shall send the award list of thesis examination to the office of the Controller of Examinations after making sure that the student has incorporated the suggested improvements. The Controller of Examinations shall notify the result of the student after receiving two bound copies of thesis to

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be submitted by the student within six months after evaluation otherwise, his/her admission shall stand cancel.

- 32. In case of disagreement between the Supervisory Committee and the External Examiner regarding the acceptance of the thesis, it shall be referred to another external examiner whose decision shall be final.
- 33. If a candidate fails in the thesis examination, he/she may enroll again and will submit a revised thesis within six months after the date of declaration of the result of the last thesis examination, on payment of the prescribed thesis examination fee. He/she can avail this chance only once.
- 34. If the thesis, submitted by a candidate for final evaluation, is proved to be copied/ plagiarized at the time of viva-voce examination, it will be liable to be rejected on the report of Board of Examiners and the Controller of Examinations will declare the candidate fail in thesis examination. The admission of such candidate shall be cancelled and he/she shall not be readmitted under any circumstances.
 - a) If the thesis of a candidate is proved to be plagiarized after its evaluation and declaration of result, previous result of the candidate will be cancelled and he/she will be declared failed in thesis examination, such a candidate shall not be readmitted to M.Sc. (Hons.)/M. Phil/MS under any circumstances.
 - b) The student shall submit two copies of hard bound final thesis and his/her supervisor will provide soft copy of the thesis to the Controller of Examinations Office through his/her official e-mail for declaration of final result.
 - c) Director Graduate Studies is empowered to extend the date of final submission of the theses by two weeks of those students who get their semifinal theses approved/scrutinized by the Directorate of Graduate Studies on the prescribed date. However, Vice Chancellor may extend the submission date further of final theses for another period of three weeks maximum on the request of postgraduate students duly recommended by the Chairperson/Dean and Director Graduate Studies.

GENERAL REGULATIONS

35.

- 36. Every candidate and his/her parents/guardian shall at the time of admission give an affidavit/undertaking, that he/she shall not indulge in politics, failing which (s)he shall not be allowed admission. In the event of violation of such an undertaking after admission, he/she shall be expelled from the Institution without notice.
- 37. The students who will enroll 5th and 6th semesters will have to pay additional fee of 50% and 100%, respectively over and above the regular fee.
- 38. The students who enroll extra semesters beyond their residential requirement to submit final thesis will not be allowed hostel accommodation.
- 39. Office of the Controller of Examinations shall keep scripts of student's examinations for one semester.
- 40. Extra fee of Rs. 5,000/- per course may be charged in addition to normal dues for repeating the course after 4th semester.
- 41. The office of Treasurer will maintain separate accounts of fee for extra semesters/repeating courses.
- 42. For minor change(s) in the title of synopsis/thesis a letter from the supervisory committee of the student will serve the purpose. However, the change(s) in the synopsis/thesis etc. will be notified by the office of the Director Graduate Studies.
- 43. [For minor and major changes in the GS/10 form, the same will be notified by the office of the Director Graduate Studies.]
- 44. For the award of M.Sc. (Hons.)/ M.Phil /MS degree, proof for submission of one research paper in HEC recognized journal will be compulsory.*

Note: Any addition / alteration in the Postgraduate Statutes and Regulations received from HEC from time to time will become part of these statutes and regulations with the approval of the statutory bodies of the University.

Statutes and Regulations Relating to the Degree of Doctor of Philosophy (PhD) in Full and Partial Residence

I. STATUTES

Duration and Requirements of Degree Program

- 1. (i) The duration for the Degree of PhD shall not be less than six and more than ten semesters in full residence and not less than six and more than fourteen semesters for the University employee admitted as part-time student.
 - (ii) a) The employees of the government/ other agencies nominated for the degree of Doctor of Philosophy at this University shall have to take leave to pursue studies as a regular student, failing which he/ she shall not be admitted. However, after getting admission by a nominee in the University, it would be obligatory for the parent department to sanction the Study Leave or extension in leave in favour of the nominee within one semester; otherwise, his/her admission shall stand cancelled.
 - b) If an employee of the Govt./Autonomous agencies gets NOC from his/her department/ competent authority, he/she will get admission as part time student and pursue his/her studies in PhD degree program provided that he/she is posted at Multan. (The student admitted will be considered as part-time, however, he/she will enroll upto three courses per semester and pay full fee as admissible under regular programs.)
 - (iii) The supervisors of PhD students shall submit a report with regard to each PhD student showing general progress particularly in research, such report shall be submitted on prescribed form (GS/13) after each semester to the Graduate Studies and Research Board/ Board of Advanced Studies and Research through the Chairperson of the Department and Dean concerned.
 - (iv) The medium of instruction and examination shall be English.
- 2. (i) There shall be 2 semesters (Winter and Spring) of 19 weeks each and a summer session of 8 to 10 weeks in each academic year. The commencement of semesters shall be regulated by the Academic Council.

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

- (ii) a) Summer session shall be optional. Students, who desire to take deficiency/compulsory minor courses/audit courses as approved in their course work programs. They may enroll failed courses and the courses in which they are allowed to improve grades under the rules, during this session. It shall not count towards residential requirements.
 - b) In Summer session double classes will be held to compensate the normal study hours of a regular semester and 75% attendance in theory and practical separately for each course, shall be observed.
- 3. The subjects of study for the degree programs are given in schedule-II which may be amended from time to time. A student shall present an acceptable thesis in addition to completing his/her approved Course Work and comprehensive examination in order to qualify for the award of the degree.
- 4. A student admitted to the degree program shall be required to undertake the following :
 - (i) He/she shall take minimum 18 credits followed by comprehensive examination. He/she will have to defend PhD synopsis and thesis at University level. Deficiency/compulsory minor/audit course(s) shall not be counted toward the minimum credit hours requirement.
 - (ii) The credit hours in the course work shall be two third from the major and one third from the minor field(s) of study. The minor field(s) of study may be one or two but shall not exceed three.

Explanation: The ratio of major and minor courses would be 2:1 and shall not apply to credits taken over and above the minimum requirement of 18 credits.

Example: The number of minimum credits under major and minor courses will be 12 and 6.

(iii) The following courses shall be compulsory:

- a) Courses Stat-703 (Design and Analysis of Experiments for Researchers) for students of Faculty of Agriculture and Environmental Sciences.
- b) Course Biochem-701 (Advanced Plant Biochemistry) shall be compulsory minor course except those who have already taken equivalent course(s) from other HEC recognized institutes.
 - Courses taken as compulsory minor shall not be counted toward minor fields required under Statute 4(ii) but will be counted in GPA/ CGPA.

II. REGULATIONS

I. Admission to the Course

C)

- 1. A candidate seeking admission to the degree must:
 - (i) have passed MSc (Hons)/MPhil/MS/ equivalent after six years education after FSc for the degree on the basis of which admission is requested, in at least first division/CGPA 3.00 and qualified GAT (Subject) test with minimum 60% marks conducted by NTS or GRE (Subject) test with minimum 70% marks conducted by University as prescribed by HEC and adopted by the Graduate Studies and Research Board/ Board of Advanced Studies and Research of MNS University of Agriculture, Multan.

Explanation: If the test is not available in NTS subject list, then a university committee consisting of atleast three PhD faculty members in the subject area will prepare the test at par with GRE Sbuject test³.

- (ii) has a domicile of the Punjab Province. Candidate with domicile other than the Punjab province has to produce a nomination letter from his/her respective provincial government against reserved seats if any.
- (iii) lists of selected candidates will be displayed only on the Notice Board of each Teaching Department and the University Website. No candidate will be informed individually about his/her selection for admission/withdrawal or cancellation of admission in a degree program.
- (vi) produce at the time of the first enrolment, a certificate from Medical Officer to the effect that he/she is free from any communicable (contagious) disease or mental or physical disability which is likely to stand in the way of his/her pursuing the chosen field of study.
 Only those medical certificates shall be accepted which have been issued by the University Medical Officers or authoritydesignated by the university itself. Amount in lieu of medical certificate will be charged as per rules.
- 2. If the course(s) studied by a candidate in his /her previous degree (on the basis of which admission is requested) does not provide adequate background for the degree program of study, he/she may be required to rectify the deficiency by taking additional course(s) as determined by the respective Departmental Board of Studies.
- 3. Candidates may be admitted at the beginning of each semester. If a candidate fails to complete enrollment, his/her admission shall stand cancelled. However, nominees of HEC, MNS UAM, foreign countries and other Government organizations, may be admitted up to the end of each semester with the condition that they will enroll without taking any course. They will submit signed GS/10 forms (without any course). The semester enrolled, however, will be counted towards their residential requirement.
- 4. (i) A teacher/researcher of the MNS University of Agriculture, Multan (permanent, temporary, adhoc or on contract basis) will be considered for admission to PhD as part time student; will be allowed to enroll maximum of two courses and one seminar in a semester with the payment of prescribed university dues. In case, he/she intends to take maximum credit hours allowed to a full time student then he/she will have to take leave from the University and pay full University dues.
 - (ii) The administrative staff (permanent, temporary, adhoc or on contract basis) of the MNS University of Agriculture, Multan will be treated at par for admission to various degree programs. He/she will have to take leave from the University and pay full University dues.

- 5. (i) The admission to a degree program shall be made by the Graduate Studies and Research Board/ Board of Advanced Studies and Research on the basis of merit list prepared and checked by the Director Graduate Studies.
 - (ii) Lists of selected candidates would be displayed by the Director Graduate Studies and if needed subsequent lists would be displayed till the last seat is filled up.

Explanation: The last list would be displayed keeping in view that 75% attendance in lectures would not suffer.

6.

(iii) The Graduate Studies and Research Board/ Board of Advanced Studies and Research may refuse admission to a candidate without assigning any reason. **Explanation:** All those students who were awarded minor penalty of fine of Rs. 2000/- and above twice on account of their misconduct during the course of their postgraduate studies as the case may be, shall be debarred from admission to the next study program for a period of two years after completion of their respective degree. After two years, they may be considered for admission to the postgraduate degree on the recommendations of the Students Affairs Committee. In the same context, the students who were awarded a major penalty will be debarred for admission to a degree program for a period of three years. They may be considered for admission after three years after completion of their respective degree, on the recommendations of Students Affairs Committee.

- (i) A candidate admitted to a degree program shall have to enroll for each semester until submission of thesis.
 - (ii) A student may discontinue enrolled semester before appearing in the final examination with the permission of the Vice Chancellor obtained through the Director Graduate Studies on the recommendations of the Dean concerned, because of sickness duly certified by the University Medical Officer or due to circumstances beyond his/her control.
 - (iv) A student so permitted to discontinue is required to resume his/ her studies from next semester on the recommendations of Chairperson and Dean concerned and notified by the Director Graduate Studies.
 - (v) a) A fellowship awardee (HEC/Non HEC) will join a training program without discontinuation. On his/her return he/she would have to meet the enrolment formalities (Ex-post facto) of the training period. The training period however, will be counted towards residential period and the trainee will not claim for appreciation letter and cash prize.
 - b) The name of the foreign scientists under whom the student completed his/her foreign training program will not be included in the panel of examiners for PhD thesis evaluation.
- 7. (i) An application for enrolment on the prescribed form (GS/10), accompanied by proof of fee paid (bank receipt) shall be presented to the office of the Director Graduate Studies on the day(s) notified for enrolment.
 - (ii) The Director Graduate Studies under special circumstances and on payment of late fee prescribed for this purpose, may permit a student to enroll within ten days after the commencement of the classes.
 - (iii) The Vice Chancellor may allow a student to enroll till the last day of the 4th week after the commencement of classes under special circumstances, in individual cases and reasons to be recorded, with double late fee prescribed for this purpose.
 - (vi) Enrollment in absentia is not allowed. Student is required to be present in person with a proof of identification (University Identity Card or Computerized National Identity Card etc.) for enrollment.
 - (vii) Enrolment will only be considered completed when GS/10 form is submitted to the office of the Director Graduate Studies. Only depositing of fee will not serve the purpose.

Explanation for GS-10 submission: Director Graduate Studies shall increase working days for fee submission alogwith fixing the dates for different departments by

pooling them into two or three groups. A student shall submit his/her GS-10 form directly to Director Graduate Studies after completing all necessary requirements i.e. filling of GS-10, signing from the concerned teachers, supervisor, concerned Chairperson and Dean of the Faculty.

Chairpersons of the departments shall make/ ensure presence of all teachers including visiting faculty (if any) during the allocated dates of fee submission for timely submission of GS-10 form. However, in case a teacher is not available due to unavoidable circumstances, the Chairperson may sign on GS-10 form on behalf of the teacher and in case of absence of Chairperson, Dean of the concerned Faculty shall be entitled to sign GS-10 form.

Advisor of each Department shall ensure that GS-10 form has been correctly filled. Students who shall deposit their fee with single late fee or double late fee shall submit their GS-10 form during the prescribed dates⁴.

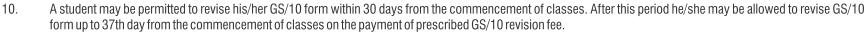
- (i) If a student fails to enroll in any semester without permission of the competent authority, he/she shall cease to be on the rolls of the University and in case he/she desires readmission, he/she shall have to apply for the same.
- (ii) The Graduate Studies and Research Board/ Board of Advanced Studies and Research may readmit such a candidate subject to payment of Rs.5000/- as readmission, full fee of semester(s) for the gap period, and 50% of full fee as per semester(s) gap fee. The period of gap semester(s) will also be counted toward(s) his/her residential period.
- (iii) The GSRB/BASR may refuse readmission if the reasons presented are not convincing.
 (i) a) The supervisory committee of a student for course work and research shall b
 - a) The supervisory committee of a student for course work and research shall be proposed by the respective Board of Studies during 1st semester.
 - b) Supervisory Committee shall consist of two teachers from the major field of study and one from the minor field of study. However, an outstanding specialist in a major or minor field of study within/outside the university may be taken as a Co-Supervisor on the Supervisory Committee. The adjunct faculty member may act as Supervisor. Faculty members of relevant disciplines from MNS-UAM may be included as supervisor/member on the supervisory committee.
 - c) Supervisor of the student will act as chairperson of the supervisory committee.
 - d) Supervisory committee proposed by the respective Board of Studies and recommended by the Chairperson and Dean of the faculty concerned shall be approved by the Graduate Studies and Research Board/ Board of Advanced Studies and Research and would be notified by the Director Graduate Studies.
 - e) Supervisory committee may be revised according to the regulation (9 (i) (a to d) for the reasons of change to be recorded.
- (ii) In case, a student duly recommended by the Chairperson and Dean concerned to conduct his/her complete/part of thesis research in other institution/ laboratory, is allowed by the Director Graduate Studies, the helping scientist may be taken as Co-supervisor on the supervisory committee of the student.
- (iii) The Professor Emeritus may act as supervisor/member of supervisory committee if he/she is stationed at Multan.
- (vi) Foreign faculty members, HEC National Professors/ HEC eminent scientists may act as supervisor/ member of the supervisory committee provided that they are appointed for three years.
- (v) Retired teachers of the MNS University of Agriculture, Multan may continue as supervisor/member of the supervisory committee to their previous postgraduate students if they had supervised the students up to the approval of the synopsis. However, on re-employment for three years they may be given supervision of a new student.
- (vi) Adhoc/contract teachers may act as supervisor/ member of the supervisory committee only where there is a shortage of regular faculty members. Faculty on Tenure Track System (TTS) will be considered as regular faculty for the subject purpose.

⁴ Approved by Syndicate in its 22nd meeting held on 03.05.2019.

8.

9.

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- 11. (i) The admission of a candidate to a degree program shall be provisional in the 1st instance and shall be confirmed only when he/she has qualified the deficiency course(s) if any as determined by the respective Board of Studies.
 - (ii) A regular student is required to qualify prerequisite deficiency courses(s) during first academic year (Two regular semesters + following summer session). However, a part time student may qualify prerequisite deficiency course(s) within three regular semesters and one summer session. This period will not be counted towards his/her residential period. If he/she fails to qualify the same during prescribed period his/her admission shall stand cancelled.

Explanation: A part time student other than MNS-UAM stationed at Multan will also be treated under the same regulation.

II. Course of Study

13.

- 12. All post-graduate courses will be designated as 700 numbers preceded by the suitable alphabets representing the name of the respective department.
 - (i) A full time student can enroll up to 12 credits hours in a semester and 9 credits hours during summer session. However, Graduate Studies and Research Board/Board of Advanced Studies and Research may relax enrollment up to 3 credits hours for a semester/summer session in special cases⁵.
 - (ii) Out of the total number of credit hours referred to Statute 4(i), only two credit hours shall be earned through seminar and one through special problem. Out of these two seminars, 1st seminar should relate to the review, whereas, 2nd seminar will be delivered at the time of preparation of synopsis, at university level. The seminar will be taken in alternate semester.
 - (iii) A course can be repeated three times (enrolled four times) at the most. The Controller of Examinations office will mention corresponding repetitions in the result notification and the student shall mentioned repetition status in the GS/10 form.
 - (iv) The Graduate Studies and Research Board/Board of Advanced Studies and Research, may consider credits earned by a student at another HEC recognized institution, subject to a maximum of 50% of the minimum credits requirements for the degree, on the recommendations of Board of Studies/ Equivalence Committee provided that the contents of the course(s) for which credit is claimed, are identical or similar to the course included in his/her planned course work and the courses for which credit is claimed are not used for another degree.
 - (v) Students would submit their course work program (GS/12) during first semester and synopsis (GS/5) during third semester of their program of study.
 - (vi) A course studied to qualify a degree will not be taken / considered for any other higher degree program.
- 14. No course shall carry more than 4 credit hours.
- 15. Credits earned for a course shall lapse on the expiry of five years for regular students and seven years for part time students from the end of the semester in which the course was qualified. Credits earned, will not lapse after qualifying the comprehensive examinations (written and oral). Graduate Studies and Research Board/ Board of Advanced Studies and Research, however, revalidate the lapsed courses for special reasons to be recorded.

Explanation: Deficiency course(s) once qualified will not lapse and shall not be called into question again and need not to be revalidated.

III. Examinations

A. Examination Fee

16. University examination fee shall be charged at the time of enrollment of each semester.

B. Tests and Examinations

17. (i) There shall be two examinations, mid and final, in each semester. In addition to these examinations the teacher shall give home assignments and quizzes etc.

⁵BASR in its 5th meeting held on 15-01-2019 has deligated its power to relex enrolment upto 3 credit hours as fallows;

(q) Director Graduate Studies may relex one extra credit hour

(b) Vice Chancellor may relex two extra credit hours.

to the students. The form of these examinations will be left to the teacher who will be solely responsible for the conduct of examination as well as evaluation in his/her course. The grade given in the course by the teacher shall be final but shall be discussed in the Board of Studies before submission of results.

- Only those students, who have at least 75% attendance in theory and practical separately in each course, shall be eligible to appear in the final examination. (ii)
- A teacher shall report to the Director Graduate Studies through the Chairperson and recommended by the Dean, names of the students who will remain (iii) absent (lecture/practical) continuously for a week without prior permission. Director Graduate Studies will cancel/strike off the admission of such students.
- Students may seek readmission with the permission of the Director Graduate Studies on the recommendations of the Chairperson and Dean within time line, (vi) i.e. up to 75% attendance
- The final examination for semester shall be held on a date and time and place to be notified by the teacher in advance. 18. 19.
 - To pass deficiency course(s) a student is required to obtain at least "B" grade. (i)
 - (ii) To pass compulsory minor course(s) a student is required to obtain at least "C" grade.
- 20. The scripts of each examination shall be discussed with the students. 21.
 - The mid-semester examination shall be held during 9th week of the semester which shall carry 30% of the total allocated marks for the course. This (i) examination shall be held by the teacher concerned who shall determine the form of the examination.
 - (ii) For the purpose of evaluation, one credit will carry 20 Marks, e.g. course with 3 credit hours will carry 60 marks. These marks will be divided in accordance with the credits assigned to theory and practical for each course.
 - The following weightage shall be given to the examinations. (iii)
 - Mid-semester examination : 30% a)
 - Home assignments/quizzes : 10% b)
 - Final examination C) :60%
 - :100% Total

(Fractions in total marks of a course will be rounded to the nearest whole number).

- 22. To qualify a course it is essential to pass separately in the theory and practical examinations.
 - The teacher shall send the final award list along with answer sheets of mid, final and practical for the course to the office of the Controller of Examinations (i) within 10 days after the end of a semester. Graduate Studies and Research Board/ Board of Advanced Studies and Research may condone the delay in result submission up to one semester. A copy of the award list will be sent to the office of the Chairperson/Director/ Director Graduate Studies.
 - (ii) In case of special problem and seminar "I" grade can be awarded in the semester. In case of continuation of special problem and seminar i.e. "I" grade, the students may complete the tasks within next semester without enrolment of the said course. If he/she fails to qualify the said course, he/she will be awarded "F" grade.
- 23. On receipt of the award lists, the Controller of Examinations shall notify the results and send copies to the Director Graduate Studies, Dean and the Chairpersons of the Departments concerned.

C.Grade Point Average

Grade point and equivalence between letter grading and numerical grading shall be as follow: 24.

Grade	Value	Marks(%)	Remarks
А	4	80-100	Excellent
В	3	65-79	Good
С	2	50-64	Satisfactory
I	-	-	In-Progress
F	0	Below 50	Fail

25. If a student fails to obtain CGPA of 3.00 at the end of each academic year (winter, spring and following summer) his/her admission shall stand cancelled. However he/she may seek fresh admission but only once.

Note: The student who avails only one regular semester (winter/spring) must obtain GPA of 3.00 at the end of summer session of the same academic year to remain on roll. **D.** Comprehensive Examination

A student admitted to the course shall take a comprehensive examination within two semesters after he/she has successfully completed the approved course work. 26. Explanation: The comprehensive examination shall be arranged within 10 weeks while the date and venue of examination shall be notified within first week of the termination of each regular semester. A student will have to apply for comprehensive examination on the prescribed form (E-30) at least four weeks before the examination. If a student does not apply within the specified period or does not appear in the examination, he/she will be deemed to have availed one chance and failed to qualify in the first attempt.

- The comprehensive examination will cover both major and minor fields of study and will consist of a written part followed by an oral part. It will be designed to ascertain 27. whether the student has attained the breadth of knowledge and the intellectual maturity necessary to become a successful scholar in his/her chosen discipline. It will not be a mere re-examination of previous courses but will test the students' ability to integrate and assimilate the knowledge obtained from the courses, seminars and independent studies.
- 28. A student has to apply on the prescribed form (E-30) for comprehensive examination to the office of the Director Graduate Studies (for 1st and 2nd attempts) under Regulations 27. In case the student does not apply/appear in the examination, his/her chance will lapse.
- If a student does not qualify either written or oral part of the comprehensive examinations, he/she shall be eligible to appear in the fail part again but only once and within 29. two semesters from the date of the declaration of the results of the examinations.
- A student who has passed the comprehensive examination shall be deemed to have become a candidate for admission to PhD degree. 30.

Comprehensive Examination - Written Part

- The Controller of Examinations shall, with the approval of the Vice Chancellor, notify the date, time and venue of the examination within first week of the termination of 31. each regular semester and at least two weeks before the commencement of the examination.
- Examiners for the written comprehensive examination shall be appointed by the Vice Chancellor, processed through Controller of Examinations office from a panel of 32. examiners (three for each paper) proposed by respective Board of Studies. The number of papers shall be three (two in major and one in minor fields).
- Each member shall, within seven days after the receipt of the answer books, return them duly marked to the Controller of Examinations along with the award list. 33. 34.
 - To pass the written examination a student must secure 65% marks in each paper separately. (i)

If a student fails in two or more papers, he/she will be re-examined in all the papers. In case a student fails in one paper, he/she can reappear only in the failed (ii) paper but only once within two semesters.

II. Comprehensive Examination - Oral Part

- 35. A student shall be eligible to appear in oral part after qualifying the written part. The Controller of Examinations shall in consultation with the Chairperson, Boards of Examiner, notify the date, time and venue for the oral comprehensive examination through video conference within four months after the date of declaration of the result of the written comprehensive examinations.
- 36. (i) For oral comprehensive examinations, the Board of Examiners will comprise of: (i) Three Examiners of written part (ii) Dean of the Faculty (iii) two members appointed by the Vice Chancellor (VC nominees) amongst the University teachers. Chairperson of the Board of Examiners for oral examination will be appointed by the Vice Chancellor.
 - (ii) The duration of oral comprehensive examination will be three hours. It will be held in the video conference room and all proceedings of the examination will be recorded.
- 37. The Chairperson of the Board of Examiners shall be responsible for the conduct of the oral examination and shall determine the order in which each member of the Board shall put questions to the student. The members shall be free to ask any number of questions.
- 38. At the conclusion of the oral examination, each member shall separately grade the student and the Chairperson of the Board of Examiners shall forward the award lists to the Controller of Examinations.
- 39. (i) To pass the oral examination a student must secure 65% marks. During the conduct of oral comprehensive examination if consensus emerges that the student has qualified except one examiner, the student will be considered 'qualified'.
 - (ii) If a student fails to qualify oral examination he/she will be re-examined only once within six months after the declaration of oral examination result.

E. Thesis Examination

- 40. (i) A candidate who has passed the comprehensive examination shall be allowed to submit thesis after plagiarism test. The thesis duly certified by the supervisory committee that the contents and form of the thesis are satisfactory for submission shall be sent to the external examiners by the office of the Controller of Examinations for evaluation.
 - (ii) Two examiners out of a panel of twelve experts from the list of the approved countries, recommended by the respective Board of Studies shall be appointed by the Vice Chancellor for the evaluation of thesis. The panel of experts should represent at least four countries.
 - (iii) After positive evaluation of thesis from foreign experts, he/she will have to defend thesis, at University level through video conference. This presentation shall be evaluated by the Supervisory Committee and if found acceptable, the final submission may be allowed⁶.
 - (iv) The thesis should be relevant to the title and scope of the degree 7 .
- 41. (i) A student shall be entitled to submit thesis for examination after he/she has qualified the approved course work, qualified the comprehensive examination (written and oral) and has also fulfilled the residential requirements. He/she is required to submit E-30 form and thesis examination fee before the submission of semi-final thesis.
 - (ii) The thesis shall be prepared according to the guidelines approved by BASR.*
 - (iii) The Controller of Examinations shall get the thesis evaluated within four months after the date of submission/resubmission of thesis to his office. Any delay beyond three months must be brought to the notice of the Vice Chancellor.

- 42. The thesis must be an original and scholarly contribution to the knowledge of the candidate's chosen field of study.
- 43. Each External Examiner shall explicitly state in his/her report:
 - (i) Whether or not the thesis is of sufficient merit to justify the award of PhD Degree to the candidate.
 - (ii) Whether the candidate should be allowed to revise and re-submit his/her thesis. In the later case the broad lines on which the thesis should be revised must be clearly stated.
- 44. If both the examiners approve the thesis, the candidate shall be recommended for the award of the degree.

Explanation:

- (i) A PhD candidate shall submit three copies of his/her PhD thesis for evaluation.
- (ii) A summary be added showing annotated replied as also verified by the concerned Chairperson.
- (iii) The PhD thesis will be placed in the office of the Chairperson of the concerned department for one week prior to its submission for foreign evaluation. The faculty and the students will be invited through Campus News to peruse the thesis for any suggestions /corrections. The suggestion received if in order will be incorporated through the supervisory committee
- 45. (i) If both the examiners reject thesis, the candidate shall be declared as failed. However, the Graduate Studies and Research Board/Board of Advanced Studies and Research may allow a student to re-conduct his/her research and re-submit his/her thesis on a new topic as recommended by his Supervisory Committee. This facility would be available only once within the period of residential requirements i.e. 10/14 semesters.
 - (ii) If both the examiners approved the thesis, the candidate shall be recommended for the award of degree.
 - (iii) When both the examiners suggest either no or minor revision the student should submit three hard bound copies of the thesis within six months, otherwise he/she shall be no more a student of the University.
- Explanation: However GSRB/BASR may relax six months further under special circumstances to be recorded.
- 46. If one of the examiners approves the thesis and the other rejects it, it shall be sent to a third examiner, for evaluation. If the third examiner approves the thesis, the candidate shall be recommended for the award of the degree, otherwise he/she shall be declared as failed.
- 47. If one of the examiners approves the thesis and the other is of the view that it is not acceptable in the form in which it has been presented but requires revision, the following procedure shall be followed:
 - (I) The Supervisory Committee of the candidate may either:
 - a) write to the examiners concerned explaining why it is not possible to revise the thesis and taking that it should be examined in its original form, or
 - b) If the views of the examiner were acceptable to the Committee, require the candidate to revise and resubmit the thesis within a period not exceeding two semesters, for re-evaluation.
 - (ii) If the examiner approves the original thesis or the revised thesis, as the case may be, the candidate shall be recommended for the award of the degree.
 - (iii) In case of disagreement between the Supervisory Committee and the examiner, the matter shall be referred to the Graduate Studies and Research Board/ Board of Advanced Studies and Research which may suggest such action as it may consider expedient.
- 48. If both the examiners express the opinion that the thesis as presented, is not acceptable, but required revision the following procedure shall be adopted:
 - (i) In case the lines, on which the examiners have suggested revision of the thesis, are substantially the same and are acceptable to the Supervisory Committee, they shall call upon the candidate to revise the thesis on these lines and re-submit it within a period not exceeding two semesters, for re-evaluation. The

revised thesis shall then be sent to the examiners and the procedure laid down in regulation(s) (46-47) shall be followed.

- (ii) In case the lines on which the examiners have suggested revision are not acceptable to the Supervisory Committee, the matter shall be referred to the Graduate Studies and Research Board/ Board of Advanced Studies and Research which may suggest such action as it may consider expedient.
- (iii) In case a candidate, who is required to revise and resubmit his/ her thesis, does not do so within the period allowed, he/she shall be declared to have failed.
- 49. Publication of at least two research papers* in Impact Factor journals is essential for the award of PhD degree. The financial incentive** to teachers will be redeemable after the publication of the papers. The name of only members of the supervisory committee will be added in the publication.

*Explanation: As per HEC policy one impact factor research publication out of the thesis research is mandatory. The second research/review paper submitted for publication is acceptable (BASR, 15th meeting held on 21-03-2023).

** The submission of the 2nd paper will be sufficient for the disbursement of financial incentive to PhD supervisor (Executive Committee 32nd meeting held on 7-8-2023).

Note: Two copies of English and Urdu articles (soft and hard) to be published in the National Press.

(ii) Final approved three copies of hardbound PhD thesis along with soft copy.

(iii) For Social Sciences disciplines W, X and Y categories are acceptable.

- 50. If the thesis, submitted by a candidate for final evaluation, is proved to be copied/plagiarized, it will be liable to be rejected. The admission of such a candidate shall be cancelled and he/she will not be readmitted to PhD under any circumstances.
- 51. If the thesis of a candidate is proved to be plagiarized after its evaluation and declaration of result, previous result of the candidate will be cancelled and he/she will be declared to have failed in thesis examination. Such a candidate shall not be readmitted to PhD under any circumstances.

General Regulations

- 52. (i) A supervisor can supervise a total of 12 MS/MPhil/PhD students at a time with no more than 5 of these being PhD students⁹.
 (ii) Non HEC approved faculty/supervisor can not supervise PhD students¹⁰.
 (iii) Supervisor of PhD student must be from the same university¹¹.
- 53. There should be at least three relevant full time PhD Faculty members to launch the PhD program.
- 54. A candidate who has fulfilled all the requirements prescribed for the course shall be awarded the Degree of Doctor of Philosophy.
- 55. While defending synopsis/thesis by a PhD student in the absence of Supervisor/Co-supervisor/member, the Chairperson of the Department in which student is enrolled will sign on the behalf of supervisor/Co-supervisor or member.
- Note: (i) In case the Chairperson of Supervisory Committee is also a Chairperson of Teaching Department and is on leave (within country) he must attend the Ph.D. synopsis/thesis defense and a date in this regard shall be fixed with his consultation.
 - (ii) For minor change(s) in the title of synopsis/thesis a letter from the supervisory committee of the student will serve the purpose. However, the change(s) in the synopsis/thesis etc. will be notified by the office of the Director Graduate Studies.
 - (ii) In case of major change(s), the student will have to defend it again at University level, evaluated by the Supervisory Committee.
 - (iii) For minor and major changes in the GS-10 form, will be notified by the Office of the Director Graduate Studies.
- 56. The students who will enroll 9th, 10th semesters will have to pay additional fee of 50% and 100%, respectively over and above the regular fee.
- 57. The students who enroll 9th/10th semester/submit final thesis will not be allowed hostel accommodation.
- 58. Teaching assistantship for at least one semester shall be mandatory requirement for PhD students to earn PhD degree. Teacher concerned from the respective

^{8.9.10,11} Approved by Syndicate in its 22nd meeting held on 03-05-2019

department shall submit the completion report to the Vice Chancellor. Afterwards, the student will defend his/her thesis.

- 59. 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.
- 60. Every candidate and his/her parents/guardian shall at the time of admission give an affidavit/undertaking, that he/she shall not indulge in politics, failing which he/she shall not be allowed admission. In the event of violation of such an undertaking after admission, he/she shall be expelled from the Institution 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.

61. Any violation against the quality parameters circulated by HEC vide letter Ref-1-4(MS/PhD)QAD/HEC/2018/86/293 dated December 03, 2018 and adopted by the Syndicate in its 22nd meeting held on 03.05.2019 shall be observed as per given below;

Sr. #	Quality Parameters	Nature Violation	Existing Decision/ policy	Proposed Action(s) if Existing policy is violated
1	Admission Criteria	Violation of admission criteria	CGPA(3.0/4.0) or First division in MS/MPhil/Equivalent and Entry test	Admission is cancelled University to return three times the amount received from student Disciplinary action against responsible staff.
2	Illegal Admission	Admission of students without NOC from HEC		Admission is cancelled University to return three times the amount received from student Disciplinary action against responsible staff.
3	Course Work	Degree awarded without minimum of 18 credit hours course work	Degree will be considered Equivalent to MS/M.Phil./Equivalent degree Ref: 1-3/ AD- QA/HEC/NQAC- 20/2015/389 dated 08.07.2015	 Degree will be considered equivalent to MS/MPhil./Equivalent degree Supervisor will be banned from supervising the new Ph.D. Scholars for 05 years Disciplinary action against department chair.
4	Comprehensive Examination to be passed by the scholar within 2 years ¹¹	Failure to clear comprehensive within first 2 years		Termination of candidature/registration of the student.
5	Supervision of thesis by an HEC approved supervisor from the university where registered.	Supervision of thesis by Non HEC approved supervisor of the university after June 30,2019	1 .Supervisor must be from the same university. Ph.D. Faculty member from another university can be co- supervisor, if required.	Disciplinary action against Department Chair.

¹¹This point has been postponded for further deliberation by Syndicate in its 22nd meeting held on 03-05-2019

6	Maximum member of students to be supervised by one supervisor	Supervision of more than 12 MS/MPhil/Equivalent and Ph.D. Students in total 5 Ph.D. students (The mix. Of MS/Mpill. And Ph.D. students should be such that the number of Ph.D. candidates does not Exceed 05)	DD-QA/HEC N/ QAC/ 2015/125 Dated February 27, 2015	Supervisor be banned from supervising the new Ph.D. Scholars for 05 years Disciplinary Action against Department Chair.
7	Review of thesis from technologically/ academically advanced country	Thesis reviewed from one technologically/ Academically advanced country only.		 One paper be published by the student from his/her thesis research before degree attestation. Supervisor be banned supervising the new Ph.D. scholar for 05 years Disciplinary action against department chair.
		Thesis reviewed from more than one countries which are not included in the category of technologically/Academically advanced countries.		 Two papers to be published by the student on the basis of thesis research before degree attestation. Supervisor be banned from supervising the new PhD scholars for 05 years.
		Unjustified delay in sending thesis for review by foreign experts from two technologically advanced countries.		Disciplinary action against Department Chair.
				• The officer (s) responsible for sending the thesis to foreign experts be warned.
8	The thesis should be relevant to the "Title and scope of the degree	Thesis has no relevancy to the title and scope of the degree.		 Supervisor be banned from supervising the new Ph.D. scholars for 05 years. Disciplinary action against Department.
9	One Research paper to be published in HEC recognized journal before the award of the degree.	No research paper published and degree awarded.	For science disciplines W and X categories + ISI Master list journals are accepted. For social sciences W, X, Y categories + ISI master list journal are accepted Note: Z categories journals for local regional languages only e.g. Punjabi, Pushto, Sindhi, Balochi, Brahvi, Saraiki and Persian.	 Paper to be published in the required category of HEC recognized journal before attestation of the degree.
		Paper published but not in HEC recognized journal		• Supervisor be banned from supervising the new Ph.D. scholars for 05 years.
		Paper published but not in required category of journal.		Disciplinary action against Department Chair

		Paper published after award of Ph.D. degree.		
		Degree awarded on the basis of paper published before synopsis approval.		
		Degree awarded on the basis of the paper that has no relevancy with thesis.		
10	Plagiarism	Degree awarded and major or minor plagiarism found in the thesis at any stage in future.	Plagiarism policy Claus 11 B (vii), 1-22 (NQAC) QAD/2017/HEC/07-364 dated March 24. 2017	Scholar and his supervisor will be penalized as per the provisions of plagiarism policy.
11	Ph.D. Duration	Degree awarded after more than 8 years or less than 3 years. Effective for students admitted after March 18, 2016	Ref: 1-3/ AD- QA/HEC/NQAC(21)/2016/53 dated March 18, 2016	 Degree will not be accepted /attested. Supervisor be banned from supervising the new Ph.D. scholar for O5 years. Disciplinary action against Department Chair
12	Degree Issued in Violation of the University's Own Rule/Law	Degree issued in violation of University PhD policy/rules in addition to HEC guidelines.		 Supervisor be banned from Supervising the new Ph.D. scholar for 05 years. Disciplinary action against Department Chair and Controller of Examination.

GENERAL INSTRUCTIONS (For all postgraduate degrees)

- 1. All postgraduate students after semester/ session enrolment must get their respective copy of the GS/10 form immediately from the office of Director Graduate Studies. Thereafter, the said copy is to be shown to the concerned teacher(s) offering the course(s) in order to include their name in the attendance register being maintained by the teacher.
- 2. In a program of study where thesis is a partial requirement for completing the degree, the students must submit their semifinal theses to the Directorate of Graduate Studies duly forwarded by the Chairperson of the Department and Dean of the Faculty concerned on or after the 60th day w.e.f. officially announced date for the commencement of classes in their last semester. They may submit the final theses on or before the 30th day after the termination of the semester provided that they are going to complete the minimum residential requirements for the degree in that semester. Those who fail to meet the stipulations may enroll the next semester provided that they have not crossed the maximum limit or semesters for that degree.
- 3. No course shall be conducted unless there are at least four students enrolled for that course. In special cases, however, if the number of students is less than four, permission of the Vice Chancellor shall have to be obtained for conducting that course within one month of the commencement of that semester and no request will be entertained after expiry of the date. This condition, however, does not apply to the summer session.
- 4. An approved course, not offered for four semesters consecutively, shall stand deleted from the list of approved courses of the department concerned.

- If a teacher is not available for guidance for most of the time he/she should be changed by the Dean of the Faculty on a request from the student supported by the 5. Chairperson of the Department concerned.
- 6. The course work program of a regular PhD student should be so arranged that it is completed within two semesters, preferably,
- Thesis should be submitted to the office of the Director Graduate Studies duly forwarded by the Chairperson of the Department and Dean of the Faculty concerned on or 7. before the scheduled date.
- Director Graduate Studies is empowered to extend the date of final submission of the theses by two weeks of those students who get their semi-final theses 8. approved/scrutinized by the Directorate of Graduate Studies on the prescribed date. However, Vice Chancellor may extend the date further of final theses for another period of three weeks maximum on the request of postgraduate students duly recommended by the Chairperson/Dean and Director Graduate Studies.
- 9. The Registration of the graduates from the other Universities admitted in this University be completed within first semester, otherwise, their admission would be cancelled.
- Course mentioned in statute four shall not be counted towards minor field as required under statute 4(ii). 10.
- When two or more brothers/sisters are studying, younger can be granted half tuition fee concession by the Dean concerned. 11.
- 12. "Audit Course" means a course attended without any liability of taking its examination.
- 13. "Credit Course" means course of study to be completed as requirement for a degree.
- 14. "Credit hours" means the successful completion of a course of one semester hour in theory or two semesters' hours in practical's per week.
- "Deficiency Course" means a course in which a student has been adjudged deficient by a competent body of the university. 15.
- "Non-Credit Course" means a course of study, successful completion of which would not be a requirement for the degree. 16.
- 17. Colour of Thesis Binding

M.Sc. (Hons.)/M Phil/MS (Blue) PhD

(Maroon)

- Abstract should be included in the thesis, acknowledgment should not be more than one page and review of literature will be in running condition with Conclusion. 18.
- Applications will be invited through National press for admission to postgraduate courses in the beginning of the academic session i.e. 19.

August/September. The application forms and prospectus of the University would be placed on the website of the University to facilitate the applicants for downloading. University may charge the fee for processing of application and entry if any, through pay order/bank draft.

Any addition / alteration in the Postgraduate Statutes and Regulations received from HEC from time to time will become part of these statutes and regulations with the Note: approval of the statutory bodies of the University.

Guidelines for Supervisors

- 1. For the supervisor, the practice of supervision should involve:
 - discussing with the supervisee the mutual expectations on which the supervision process can be built; (i)
 - (ii) giving general advice on resolving academic problems arising in the course of the research project;
 - (iii) giving advice on developing and narrowing the theme and problem to be dealt within the PhD thesis;
 - discussing method, approach and later the results of the project; (iv)
 - (V) assisting the candidate in finding relevant literature or research materials, additional research funding (if necessary) or gaining access to the field;
 - supporting the supervisee in his/her integration into a local PhD discussion group, in which the supervisee can presents his/her research; (vi)

- (vii) supporting the supervisee in his/her integration into the broader scientific community through conference participation, publication and/or inclusion in third party funded projects/project applications;
- (viii) supporting the acquisition of teaching skills through the supervisee's inclusion in taught courses, if this does not interfere with the timely completion of the PhD thesis;
- (ix) providing feedback on essential parts of the final draft of the PhD thesis before the latter is handed in;
- (x) discussing career options for the time after the PhD;
- (xi) recommending another supervisor if he/she is unable to supervise or continue with the supervision
- (xii) calling meetings of supervisory committee and supervisee;
- (xiii) maintaining a file including meeting schedule of supervisory committee;
- (xiv) submitting meeting schedule and contribution of supervisory committee in research work.
- 2. For the Co-supervisors/Members, the practice of supervision should involve;

iv.

- i. guide the supervisee on the issues mentioned in section 86 as much as possible and, if necessary, in agreement with the supervisor.
- ii. can set up a reporting procedure with the candidate, if this is deemed helpful and agreed between the supervisors and the PhD candidate.
- iii. If PhD candidates stay at the university of the Co-supervisor for research or teaching, Co-supervisors should assist the candidate in the preparation of and during their stay.
 - Comments from Co-supervisors on the final draft of the thesis are highly welcome.
- 3. Supervisees: During the PhD scholarship period the supervisee concentrates on working on his/her PhD project for finishing it in the envisaged time frame. He/she keeps in touch with the supervisor on a continuing basis, respectively according to the forms and intervals agreed upon with the supervisor, for enabling the supervisor to fulfil the responsibilities set out in section 86-87.
- 4. Reporting and work plan: The first supervisor and the supervisee agree on a work plan, including a time frame for completing a high quality doctoral thesis within the period of three years (in exceptional circumstances: maximum four years). The supervisor and the supervisee set up a regular reporting procedure (e.g. through the provision of research reports, draft chapters etc.) for assessing the progress of the research project according to the original work plan and deciding, if necessary, on its adaptation. Reporting should take place at least once per year.
- 5. Conflict resolution: Different opinions between supervisor/co-supervisor/member and supervisee, which may severely harm the trust-based cooperation between them, should be communicated to the Chairperson, Graduate Studies and Research Board/ Board of Advanced Studies and Research. The latter may then install a case-based committee for resolving the issue in a for all parties acceptable way.



FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

The Faculty of Agriculture and PhD) with diverse background and projects from national and international USAID, Australian Centre for International Environmental Sciences was established academic experiences at top universities funding agencies like Higher Education Agricultural Research (ACIAR), DAAD in 2015 as the first faculty in MNS- in Australia, China, Germany, Korea, Commission, Punjab Agriculture Germany. Currently, there are 56 students University of Agriculture, Multan. The Singapore, UK, USA etc. The faculty Research Board, Agricultural Linkages enrolled in Ph.D., 448 in M.Sc. (Hons.) faculty has energetic team of 69 full time members have published more than 670 Program, Punjab Skill Development Fund, and 1786 in B.Sc. (Hons.) Agriculture. faculty members (52 PhD and 17 Non research papers and won more than 50 Prime Minister Youth Development Fund,

It has following institutes/departments offering postgraduate programs

1. Institute of Plant Breeding and Biotechnology:

- ✓ Plant Breeding and Genetics
- ✓ Seed Science and Technology
- ✓ Biotechnology
- 2. Institute of Plant Protection with following chairs:
- ✓Entomology
- ✓ Plant Pathology
- 3. Department of Agronomy
- 4. Department of Food Sciences and Technology
- 5. Department of Horticulture
- 6. Department of Soil and Environmental Sciences

The faculty is also offering postgraduate courses in majority of the subjects and also intends to start new major subjects





Institute of Plant Breeding & Biotechnology

INSTITUTE OF PLANT BREEDING AND BIOTECHNOLOGY

The Institute of Plant Breeding and funded by national and international Biotechnology at MNS-UAM offers funding agencies including Agricultural postgraduate degree programs in the Development Program (ADP), Govt. of the subjects of Plant Breeding and Genetics, Punjab, Punjab Agricultural Research Seed Science and Technology, and Board (PARB), Higher Education Biotechnology. The institute has qualified Commission (HEC), Agricultural Linkages faculty actively involved in developing Program (ALP), DFID, ACIAR and USAID. latest curriculum and promoting effective The institute has also initiated outreach research and development activities in the program for establishing linkages between University. The institute was established the farming community, industry and the with the aim of developing improved crop researchers to solve the problems of the varieties and improving seed systems stakeholders. The institute arranges through the integration of conventional seminars, conferences and workshops to plant breeding techniques with modern discuss burning issues of agriculture and biotechnological tools. The institute is also to bring new research ideas for the running number of research projects young faculty and post graduate students.





Improvement in Plant Breeding System through integrating conventional plant breeding techniques and modern biotechnological tools, Seed Production and Supply System, and good agriculture practices at farmers field to obtain high yield of better quality produce to ensure food security.



Vision

To produce skilled human resource in conventional and advanced techniques of plant breeding, seed science and biotechnology to meet the needs of breeding systems, seed industry, and farming community.



DR. ASIF ALI Position: Vice Chancellor/Professor Qualification: Ph.D, Post-Doc Expertise: Cotton and vegetables molecular breeding Email: vc@mnsuam.edu.pk



DR. M. HAMMAD NADEEM TAHIR Position: Professor and Director Qualification: 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. MUHAMMAD ASAF KHAN Position: Associate Professor Qualification: Ph.D (Austria), Postdoc (CAAS-China) Expertise: Hormonal Regulation of Stress tolerance in crop plants, Bioinformatics Email: muhammad.asaf@mnsuam.edu.pk



DR. M. HABIB UR RAHMAN

Position: Associate Professor Qualification: PhD Expertise: Cropping System Modeling, Climate Change Email: habib.rahman@mnsuam.edu.pk



DR. UMMARA WAHEED Position:Assistant Professor Qualification: Ph.D Expertise: Genetic Transformation, Tissue Culturing and Genome Editing Email: ummara.waheed@mnsuam.edu.pk



DR. M. ABU BAKAR SADDIQUE Position: Assistant Professor Qualification: Ph.D Expertise: Pulses and vegetables molecular breeding Email: abubakar.siddique@mnsuam.edu.pk



DR. ZULOARNAIN KHAN Position: Assistant Professor Qualification: Ph.D Expertise: Genome Editing and Plant Transformation Email: zulqurnain.khan@mnsuam.edu.pk



DR. SHOAIB UR REHMAN Position: Assistant Professor Qualification: 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 Position: Assistant Professor Qualification: Ph.D Expertise: Development of climate resilient cotton through precision breeding and gene expression profiling Email: akash.fatima@mnsuam.edu.pk



DR. MUHAMMAD FAISAL Position: Assistant Professor (Biotechnology) Qualification: Ph.D, Post Doc Expertise: Next Generation Sequencing (NGS), Molecular Biology, Bioinformatics Email: muhammad.faisal@mnsuam.edu.pk



DR. M. AMIR BAKHTAVAR Position: Lecturer Qualification: PhD Expertise: Seed Physiology, Seed Storage, Seed Enhancements Email: amir.bakhtavar@mnsuam.edu.pk



DR. MUHAMMAD ASIF SHEHZAD Position: Assistant Professor Qualification: PhD Expertise: Abiotic stresses Email: asif.shehzad@mnsuam.edu.pk



DR. SHAHID IOBAL Position: Assistant Professor Qualification: PhD Expertise: Crop Physiology, Seed Physiology, Crop Diversification Email: shahid.iqbal@mnsuam.edu.pk



DR. UMAR AKRAM Position: Assistant Professor/IPFP Fellow Qualification: Ph.D Expertise: Genome Editing, Plant Genetic Transformation Email: umar.akram@mnsuam.edu.pk



MR. BABAR FAREED SHER Position: Lecturer Qualification: M.Sc. (Hons.) Agriculture-PBG Expertise: Doubled haploid technology in maize breeding, Maize developmental biology and plant architecture Email: babar.farid@mnsuam.edu.pk



MR. FUROAN AHMAD Position: Lecturer Qualification: M.Sc. (Hons.) Agriculture-PBG Expertise: Cotton genetics and molecular breeding for abiotic stress Email: furqan.ahmad@mnsuam.edu.pk



Dr. MUHAMMAD ALI SHER

Position: Lecturer Qualification: M.Sc. (Hons.) Agriculture-PBG Expertise: Association Mapping, Hybrid Wheat Development, Maize Breeding Email: ali.sher@mnsuam.edu.pk



MR. MAHMOOD ALAM KHAN Position: Lecturer Qualification: M.Sc. (Hons.) Agriculture Expertise: Farm Management, Seed Production System Email: mahmood.alam@mnsuam.edu.pk



Dr. PLOSHA KHANUM Position: Lecturer Qualification: M.Sc. (Hons.) Agriculture-PBG Expertise: Tissue culture of date palm, sugarcane and ornamental flowers Email: plosha.khanum@mnsuam.edu.pk



MS. SAIMA RASHEED Position: Lecturer (on study leave) Qualification: M.Phil Expertise: Plant abiotic stress Email: saima.rashid@mnsuam.edu.pk



MS. MADIHA GOHAR Position: Lecturer, Biotechnology Qualification: M.Sc. (Hons.) Expertise: Hybrid Speciation, Vegetable Breeding Email: madiha.gohar@mnsuam.edu.pk



DR. SEHRISH IJAZ Position: Lecturer Qualification: PhD Biotechnology Expertise: Gene cloning, protein-protein interaction and NGS Email: sehrish.ijaz@mnsuam.edu.pk



INSTITUTE OF PLANT PROTECTION

INSTITUTE OF PLANT PROTECTION (IPP)

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. 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.

Uplifting agricultural community through enhancing agricultural productivity by minimizing losses caused by insect pest complex and diseases using modern and environmental friendly measures, stabilizing natural ecosystem. Currently following chairs are present in the Institute:

Vision

Mission

Developing an integrated system of research and outreach for plant protection

1. Program Entomology

The faculty members of this program are highly qualified and take pride in their teaching responsibilities. Majority of the faculty members are PhD having foreign teaching / research experience. The faculty devotion for research is apparent from the publication of over 405 research and review articles and book chapters in well-reputed national and international journals. The following thematic groups are doing research and development activities under this Chair are: insect biodiversity and taxonomy, insect ecology and behavior, integrated pest management, insecticide toxicology, insecticide resistance, Bt resistance, biological control of insects, plant-pollinators interactions towards yield enhancement, vector entomology, forensic entomology, urban entomology, stored product pest management and vertebrate pest management.

2. Program Plant Pathology

The faculty members of this program are actively involved in unique blend of quality teaching and research activities in the different discipline of Plant Pathology like Virology, Bacteriology, Mycology, Nematology, Epidemiology and fungicide resistance. The research revolves around plant diseases, mechanisms involved in disease development, forecasting and their control employing modern and conventional research approaches. The faculty commitment for research is ostensible from the publication of over 425 research articles and book chapters in well-reputed national and international journals.



DR. SHAFQAT SAEED Position: Professor & Dean Qualification: Ph.D., Post-Doc. Expertise: Integrated Pest Management, Pollination Ecology Email: shafqat.saeed@mnsuam.edu.pk



DR. MUHAMMAD ASHFAO Position: Professor & Director IPP Qualification: Ph.D., Post-Doc. Expertise: Molecular Plant Virology Email: mashfaq@mnsuam.edu.pk



DR. UNSAR NAEEM ULLAH Position: Associate Professor Qualification: Ph.D. Expertise: Public Health Entomology, Insect Taxonomy Email: unsar.naeem@mnsuam.edu.pk



DR. MIRZA ABDUL OAYYUM Position: Associate Professor Qualification: Ph.D. Expertise: Microbial control, bio-

formulations

Email: gayyum.mirza@mnsuam.edu.pk



DR. RANA BINYAMIN Position: Associate Professor Qualification: Ph.D Expertise: Plant Virology Email: binyamin@mnsuam.edu.pk



DR. NADEEM AHMED Position: Assistant Professor Qualification: Ph.D. Expertise: Plant Disease Epidemiology Email: nadeem.ahmad@mnsuam.edu.pk



DR. HASAN RIAZ Position: Assistant Professor Qualification: Ph.D. Expertise: Evolutionary Virology, Virus-Vector Interactions, Endophytes Mediated Plant Disease Management Email: hasan.riaz@mnsuam.edu.pk



DR. MUDSSAR ALI Position: Assistant Professor Qualification: Ph.D. Expertise: Pollination Ecology Email: mudssar.ali@mnsuam.edu.pk



DR. NAEEM IOBAL Position: Assistant Professor Qualification: Ph.D. Expertise: Integrated Pest Management, Social Insects Email: naeem.iqbal@mnsuam.edu.pk



DR. MUHAMMAD ISHTIAQ Position: Assistant Professor Qualification: Ph.D. Expertise: Pest Management, Insecticide Resistance Email: m.ishtiaq@mnsuam.edu.pk



DR. MUHAMMAD NADIR NAQQASH Position: Assistant Professor Qualification: Ph.D. Expertise: Ecotoxicology, Molecular Entomology Email: nadir.naqqash@mnsuam.edu.pk



DR. AKHTAR HAMEED

Position: Assistant Professor Qualification: Ph.D. Expertise: Bacteriology, Microbiology, Organic Agriculture Email: akhtar.hameed@mnsuam.edu.pk



DR. FARRUKH BAIG

Position: Assistant Professor Qualification: Ph.D., Post-Doc. Expertise: Insect Chemical Ecology, Insect Behavior, Insect-Microbe-Plant Interactions Email: farrukh.baig@mnsuam.edu.pk



DR. MUHAMMAD ASIF FAROOQ Position: Assistant Professor Qualification: Ph.D. Expertise: Pesticide residues, Toxicology, Fruit IPM Email: asif.farooq@mnsuam.edu.pk



MS. HAFIZA TAHIRA GUL Position: Lecturer Qualification: M.Sc. (Hons.) Entomology Expertise: Biological control, Urban Entomology Email: tahira.gul@mnsuam.edu.pk



DR. MIRZA ABID MEHMOOD Position: Lecturer Qualification: Ph.D. Expertise: Microbiome, Phytobiome, Metagenome, Metatranscriptome, Soil Microbial Diversity Email: abid.mehmood@mnsuam.edu.pk



DR. M. ARSLAN KHAN Position: Lecturer Qualification: Ph.D. Expertise: Plant Nematology, Biopesticides, Integrated Disease Management Email: arslan.khan@mnsuam.edu.pk

MR. ASIF MAHMOOD ARIF

Position: Lecturer(on study leave) Qualification: M.Sc. (Hons.) Plant Pathology Expertise: Fungal Diseases of Fruit Crops; Plant Disease Diagnosis Email: asif.mahmood@mnsuam.edu.pk



DR. HAFIZ M. USMAN ASLAM

Position: Lecturer Qualification: Ph.D. Expertise: Plant Disease Diagnosis, Mycology, Molecular Characterization of Plant Pathogens, Bioinformatic Analysis Email: usman.aslam@mnsuam.edu.pk





Department of Agronomy

DEPARTMENT OF AGRONOMY

The Department of Agronomy is international institutes, makes it Department also organizes postgraduate degree programs. striving hard to earn repute of one of the most accomplished seminars and workshops on The students are blessed with excellence in agronomic departments in the University, contemporary issues of diverse learning facilities education with focus on So far, the Department of agriculture. Advisory services to ranging from lectures to problem-oriented research Agronomy at MNS-University of farmers are also being provided. interactive tutorials, brain related to crop production and Agriculture, Multan has The department has all the basic storming sessions and field soil management. A dedicated published 150 international facilities like lecture rooms, workshops involving advance and highly qualified faculty, papers in referred journals, won well-equipped research audio visual aids. having hands on experience in eight research projects and laboratories, text books and agronomic teaching and submitted several others for reference materials for research at national and competitive grants. The undergraduate and



- To produce technically trained human resource in the field of agronomy
- To generate, integrate and apply knowledge about crop plants that are grown for food, feed, fiber and general benefit of mankind.
- To promote research work to ensure that agricultural systems and products are able to meet rapidly-changing current needs and those of future generations.
- To cope crop production under dwindling natural resource, climate change and adaptation and mitigation strategies development for sustainable production under changing climate scenarios.
- To find and denominate answer to problems through the integration of teaching, research and extension/outreach efforts, disseminate answers to problems.
- To discover opportunities concerning efficiency and sustainability of production, improvements in quality and methods for safe and environmentally sound agronomic practices.



DR. ABDUL GHAFFAR Position: Professor and Chairman Qualification: PhD Climate Smart and Sustainable agriculture, Farming/Cropping systems and Conservation Agronomy Email: abdul.ghaffar@mnsuam.edu.pk



DR. HAFIZ MOHKUM HAMMAD

Position: Associate Professor Qualification: PhD Crop growth modeling and climate change Email: hafiz.mohkum@mnsuam.edu.pk



DR. KHURAM MUBEEN Position: Associate Professor Qualification: PhD Weed Science, Resource Conservation Email: khurram.mubeen@mnsuam.edu.pk



DR. RAO MUHAMMAD IKRAM Position: Associate Professor Qualification: PhD Expertise: Weed Ecology, Allelopathy Email: rao.ikram@mnsuam.edu.pk





MR. NABEEL AHMAD IKRAM Position: Lecturer Qualification: M.Sc. (Hons.) Agronomy Expertise: Weed Crop Interference Email: nabeel.ahmad@mnsuam.edu.pk



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DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

The Department of Food Science and Technology was established in 2014 at Muhammad Nawaz Shareef University of Agriculture, Multan. Keeping in view the current scenario of the world and our own country for food safety and food security, the department is aimed to produce well trained human resource for the emerging needs of the food industry. The major focus of the department is utilization of basic principles of food science and technology for processing and preservation of food commodities to meet the challenges of massive population and fastest growing food industry in the country. South Punjab is the hub for

agricultural produce and a lot of food industries are installed here to enhance the quality of food products and there is a great demand of food technology graduates to cope the needs of the area in terms of industry and academia. The present faculty is practically involved in the capacity building of the students through effective teaching and training programs. Malnutrition and unavailability of safe food is the major issues of the South Punjab community. These issues have been taken up as challenge by the department and it started taking initiatives to cater the society through public awareness and developing new food products. In this perspective, the department is aiming to provide all possible facilities in collaboration with different food industries and other neighboring institutes to train the graduates with skills and futuristic vision. We are working on the following research areas:

- Food Microbiology and Biotechnology
- Fruits and Vegetable Processing
- Grain Science and Technology
- Food Safety and Quality Assurance
- Nutraceutical and Functional Foods
- Animal Products Processing



To equip and prepare young minds for meeting challenges of global food safety and food security situations. Provision of healthy, friendly, safe and educational environment for students is the main edge of the Department of Food Science and Technology.



To enhance the learning capabilities of our graduates through regular practical classes and internship training programs. This vision is pursued under/in equivalence with the core values of the university i.e. integrity, excellence, teamwork, discipline and dedication to work.



DR. UMAR FAROOQ Position: Professor/ Chairman Qualification: PhD Expertise: Food Technology, Microbiology, Biotechnology Email: umar.farooq@mnsuam.edu.pk



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Department of Horticulture



DEPARTMENT OF HORTICULTURE

proceedings.

BSc (Hons), MSc (Hons) and PhD with MNS-UAM in main mango growing area of specialization in horticulture subject. Pakistan the department emphasizes on Curriculum of these degree programs is creating awareness, branding and reviewed and revised keeping in view networking in mango production, supply needs of horticultural community and and value chains. In this regard, the recent developments in horticulture department has a pride to organize an industry of Pakistan and the world through annual mango festival in Multan to provide statuary bodies. The department was a platform to mango stakeholders established during 2015; and uptil 2019. sixty two (62) undergraduate and three nursery owners, fertilizer companies/ (03) master level students have received their degrees from department. Currently, five (05) PhD, thirty seven (37) master and forty seven (47) undergraduate students are enrolled.

As far as R&D is concerned various projects of worth Rs. 26.5 million are In addition, the department also arranges students, department arranges study

completed.

The department offers degree programs in Considering geographical location of including growers, exporters, processors, dealers, pesticide companies, banks and several other organizations/firms etc. These opportunities provide them a that attract the national and international system. businessmen.

Department comprises of young, under progress including. Supply chain regular seminar and workshops to tours including visits to progressive energetic and motivated faculty, staff as management of minor fruits like Ber, disseminate information related to farms, markets and botanical gardens. well as research team having diverse Mulberry, Grapes, Phalsa, Litchi, international compliances on mango These activities help students to share experience and strong commitment Pomegranate and Jaman as targeted quality and safety through consultancies their interest and expand their network for towards teaching, research and outreach. crops and is funded by HEC; Postharvest to facilitate and trains the growers to grow finding carrier opportunities after The departmental faculty consists of a management of strawberry funded by export guality mangoes. Recent graduation. Moreover department professor, five assistant professors and a Pakistan Agriculture Research Board organization of training course on Ultra- arranges annual cultural functions to build lecturer: all having rich teaching (PARB-CAS); Vegetable grafting and High Density Plantations of Mango experience together with numerous Awareness regarding insect repellent Orchard is a new international activity publications in national and international plants funded by HEC; while projects introduced by the department to create peer review journals and conferences worth Rs. 1.5 million have been awareness in mango industry and develop technical capacity to get higher mango yields through small trees system (STS). Dr. Steven A. Oosthuyse from South Africa was resource person and the training was attended by 150 growers/stakeholders belonging to different areas of Pakistan.

> Additionally, department also organized Sino-Pak Horticultural Conference, flower show, seminar on strawberry and pomegranate production and postharvest management and social awareness about insect repellent plants. Moreover. department is a leader in the production of different disease and pesticides free vegetables like tomato, bell pepper, platform to display their products on stalls cucumber grown under hydroponic

> > To develop social skills and integration in

relationship with fellow students. Special emphasis is given to paid internship and hands on training on private and public farms for practical grooming of students. In case of extracurricular activities department motivates the students to participate in various clubs (Qirrat and naat club, debating club, dramatic club, literary club, media club, women society, agriculture volunteer club, sport society, plant for life society) and events organized by department to make them wellrounded individual. Department also offer scholarships including university merit scholarship, HEC need based scholarship, Punjab education endowment fund, Prime ministers fee imbursement scheme for less developed areas (South Punjab) to meet educational expenses for ensuring world class education within the reach of deserving students.



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Department of Soil & Environmental Sciences

DEPARTMENT OF SOIL AND ENVIRONMENTAL SCIENCES

Healthy soils and clean environment are Chemistry, Soil Physics, and Climate indispensable for all life forms on earth Change. The departmental labs are due to their tremendous role in food equipped with state of the art equipment security and human health. Therefore, for research. Therefore, two M.Sc. MNS University of Agriculture Multan (Hons.) programs are offered in the established its Department of Soil and subject of "Soil Science" and "Climate Environmental Sciences in year 2012. The Change". The Climate Change degree department houses distinguished faculty program is a joint venture with different with vast teaching and research departments of the university. However, experience in various domains such as PhD is offered only in the subject of "Soil Saline Agriculture, Soil Microbiology and Science". Faculty comprises HEC Biochemistry, Soil Fertility and Plant approved supervisors which are Nutrition, Soil and Environmental competent and open minded to make

collaborations, take initiatives, establish Research Institutes, Soil and Water industry academia linkages and perform Testing Laboratories. Fertilizer and outreach activities.

Postgraduate programs of the department Currently, 10 national and international prepare the students to address funded research projects are going on in agricultural and environmental challenges the department. Moreover, gatherings of keeping in view the local and global scientific community in the form of perspectives. Research in the department seminars, conferences and workshops drives innovation and new technologies are regularly held to provoke the scientific for problem solving to pave the way for thoughts in students and to establish knowledge economy. After graduation, the linkages with potential stakeholders trained students serve in Public and Private sectors such as Universities,

Pesticide Companies and leading NGOs.

Mission



Vision

To contribute in national growth and development by producing technical manpower and productive research.

To produce graduates having strong problem solving skills by effective learning through efficient teaching, training and outreach activities for improving soil and crop health in changing climate.





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Faculty of Social Sciences and Humanities

FACULTY OF SOCIAL SCIENCES AND HUMANITIES

Department of English, Department of academic training from leading programs namely M.Sc.(Hons.) Agri. Islamic Studies and Department of Universities of China, Germany and economics and MS Computer Science Computer Sciences. The faculty has total Pakistan. The faculty members have and MS(Management-Agribusiness

vThe Faculty of Social Sciences and strength of 19 faculty members which several research projects and published Specialization). Currently 700 students Humanities is comprised of Department of include 7 PhDs and 12 Non-PhD faculty research in renowned journals. At present, are enrolled in different postgraduate and Agribusiness and Applied Economics, members. Academic staff of faculty has faculty offers three post graduate degree undergraduate degree programs.

Faculty of Social Sciences & Department of **Humanities** Agribusiness and **Consists of** Applied **Economics Five Departments:**

5 Department Department Department Department of of of of Islamic English Computer Continuing Science Education **Studies**

organs has been exploring socio- degree programs at undergraduate level in weeks to six months for capacity building postgraduate degrees in Agricultural economic issues of national/international the disciplines of Agricultural and and skill development. Keeping in view, the Economics, Agribusiness, computer importance to assist policy makers and Resource Economics, Agribusiness, future requirements and challenges of science and Agricultural Extension at development practitioners in formulation Computer Sciences and Information 21st century, the Faculty has upgraded undergraduate level considering market pro-poor policies for sustainable Technology. The Department of and revised its institutional programs both needs and public demand. development. Faculty of Social Sciences Continuing Education offers short courses at undergraduate and postgraduate levels.

The faculty with its constituent and Humanities is currently offering of different durations ranging from two The Faculty is also planning to initiate



Department of Agribusiness and Applied Economics

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DEPARTMENT OF AGRIBUSINESS AND APPLIED ECONOMICS

Population of Pakistan is increasing at an alleviation of poverty and ensuring food emerging challenges of rural economy of dimensions for viable rural development. alarming rate and its majority depends security and overall development in the Pakistan. The aim of the department is to Department offers postgraduate program directly or indirectly on income streams rural areas. The Department of promote knowledge and to educate in Agricultural Economics. generated by the agriculture sector. Agribusiness and Applied Economics is scientists specialized in research and in Therefore, agriculture development is well aware about the changing scenario of tackling problems connected to the inevitable for improving quality of life, agricultural sector and abreasting itself to economics, social and environmental



To expand the self-importance and a sense of pride in Agricultural Economics and Agribusiness profession to construct an excellent agri.-entrepreneur, fostering agribusiness management and the food security

The Department is aimed to provide Quality education, training and research on decision making, resource allocation, business management and public policy for the people of Punjab and beyond. The department focuses on providing quality education at undergraduate and graduate level strengthening the locality through its outreach efforts.





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Department of Computer Science

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04

immad Nawaz Shareel

DEPARTMENT OF COMPUTER SCIENCE

dedicated to train and produce graduates To impart and enhance student's research knowledge, to an advanced and research skills in computer networks and who can utilize the comprehensive ability in the field of computer science, a specialized benchmark that focus current communication, information and network knowledge in various field of Computer postgraduate program in Computer research trends in stat of the art security, advanced databases system, Science. To follow this vision, Science is being offered. Master of technologies invarious computer science digital image processing, computer undergraduate programs in Computer Science in Computer Science is a disciplines. Program's curriculum is vision, machine learning and data science. Science and Information Technology have research-oriented programme for those designed in a way that it will train the

Department of Computer Science is been on the move for the last many years. students who want to expand their graduates with advanced knowledge and

Objectives

The department will enable the students to:

- Enlighten with innovative theoretical and practical computer science knowledge.
- Substantial exposure to modern themes in Software Technology, Computer Networks, Computer Architecture, Computer Vision, Artificial Intelligence, Machine learning, Data Sciences.
- Extend research in computer science and its allied fields.
 - Provide skilled professionals to IT industry.

Mission

The mission of computer science degree programs is to prepare technically strong students in computing and capable of working both in core and interdisciplinary areas. Students will be trained to contribute effectively towards sustainable economic growth and community development. This can be witnessed by their career satisfaction, role in management and leadership level in respective professions.

Achievements during 2019-2020

- **3rd Position in MICROSOFT Imagine Cup 2020**
- DICE-AFS 2019 at MNSUAM: Two project won Rs. 10000 each



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Department of Outreach and Continuing Education (DOCE)

1. Introduction of the Department

The Department of Outreach and Continuing Education (DOCE) at MNS-UAM offers M.Sc. (Hons.) Agricultural Extension. This degree program will enhance agricultural productivity through effective knowledge dissemination to farmers. Moreover, the graduates from the program are expected to facilitate sustainable practices, promote economic growth, and ensure food security in rural communities. Moreover, the department also 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 also frequently organizes the faculty and student training programs.

2. 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.

3. Vision

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



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FACULTY OF VETERINARY AND AND ANIMAL SCIENCES







FACULTY OF VETERINARY AND ANIMAL SCIENCES

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 (14 PhD and 12 Non PhD) with diverse background and academic experinces at world's renowed 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 eight departments as approved by University Syndicate.

- 1. Department of Anatomy
- 2. Department of Clinical Sciences
- 3. Department of Pathobiology
- 4. Department of Animal Feed and Production
- 5. Department of Poultry Science
- 6. Department of Fisheries and Aquaculture
- 7. Department of Biotechnology and Biochemistry
- 8. Department of Pharmacology and Physiology

Programs Offered at Main Campus

Following Postgraduate degree programs are being offered in the Faculty of Veterinary and Animal Sciences. Postgraduate Programs

- 1. MS Public Health
- 2. MS Poultry Science
- 3. MS Fisheries and Aquaculture
- 4. MS Zoology



DEPARTMENT OF POULTRY SCIENCE

Introduction

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.

Program Offered

MS Poultry Science

Vision

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

Mission

- 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

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MR. FASIAL RIAZ
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DEPARTMENT OF ZOOLOGY, WILDLIFE AND FISHERIES

Introduction

Fisheries and aquaculture 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.

Programs Offered

- 1. MS Zoology
- 2. MS Fisheries & Aquaculture
- 3. Ph.D. Zoology

Vision

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

Mission

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. M. ASIF RAZA

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DEPARTMENT OF PATHOBIOLOGY

Needless to say, that the importance of Public Health is many times more in the 21st century compared to the previous years. The causes of almost all epidemics are found in animal and human interactions. The rise of epidemics, ills of improper diet and unhealthy lifestyles have necessitated the development of an effective public health system. Citizens, including leadership, do not comprehend the difference between the medical care and the Public Health Care. In Pakistan, our attention has been on medical care and not on public health care system with the result each time an epidemic or a disease surface it shakes the society and governments. This is the time to build broader capacity and bring needed reforms in various aspects of our public health care system such as policy education programs, research, concept of prevention and one health concept from global health perspective. One health is a hot public health concept in modern world where human, veterinary, environmental, nutritional, agricultural, microbiology, IT and social aspects of health should be addressed under one umbrella. MNSUAM has a strong agricultural, veterinary, nutrition and IT programs which provides the basic platform to run the MSPH degree. Also, we have already running a collaborative degree in Nutrition and Dietetics with Nishter Medical university which can provide us support in regards to human health courses of MSPH program. Also the university is also providing services on diagnostics and management of dengue. Unlike many other MSPH programs going on in Pakistan, our research based MSPH degree is designed to develop knowledge and capacity keeping in view the concept of one health best suited to the resources available at MNSUAM.

Program Offered

1. MS Public Health

Department of PATHOBIOLOGY



PROF. DR. M. ASIF RAZA

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Position:Assistant Professor Qualification:Ph.D(UAF) Expertise: Parasitology Email: kashif.hussain@mnsuam.edu.pk



DR. AZIZ UL RAHMAN

Position:Assistant Professor Qualification:Ph.D Expertise:Microbiology Email: aziz.rahman@mnsuam.edu.pk



MR. WAQAR ZAIB

Position: Lecturer Qualification:M.Sc. (Hons.) Expertise:Microbiology Email.waqar.zaib@mnsuam.edu.pk



MR. M. UMAIR WAQAS

Position: Lecturer Qualification: M.Phil.(Australia) Expertise: Public Health Email:umair,waqas@mnsuam.edu.pk



DR. AHSAN ANJUM

Position: Lecturer Qualification: Ph.D. Expertise: Veterinary Pathology Email: ahsan.anjum@mnsuam.edu.pk

FACULTY OF AGRICULTURAL, BIOSYSTEM ENGINEERING & TECHNOLOGY (FABSET)













The economy of Pakistan is primarily based on agriculture, which is contributing about 21% to its GDP, employing 45% of its work at comparison providing livelihood to more than 67% of its population, mostly primarily residing in rural areas. Contribution of this sector in the national economy is heavily dependent on adequate supply of irrigation water, state of the art as were slow-cost farm equipment and structures, and safe environment. At the same time, it is also needed to provide alternative energy sources and post-harvest food preservation technologies to ensure food security as the post-harvest losses in fruits and vegetables reduce production by 25-40%. To cater the need of technological advancement and mechanization in the agriculture sector, the Department of Agricultural Engineering was established at Muhammad Nawaz Shareef University of Agriculture, Multan (MNS-UAM). Over the years, the department has developed an advanced infrastructure, hired qualified and accomplished faculty, and established well equipped laboratories for comprehensive training in water mechanization, environmental, industrial, and computer modeling aspects of agriculture. The department aims to excel in academic professionalism and entrepreneurial development in agricultural engineering and has opened its doors to the public to initiate dialogue through university industry linkage, outreach programs, internship for students and MOUs with public/private sectors.

Department Vision

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

Department Mission

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

List of postgraduate degree programs offered

- 1. M.Sc. (Hons) Agro Industrial Engineering Technology
- 2. M.Sc. (Hons) Agricultural Engineering

1. M.Sc. (Hons) Agro Industrial Engineering Technology

Agriculture industries convert raw agricultural materials into value-added products by industrial and process technologies. Agro-based Industries (Als) create employment and generate income for both farming and non-farming community. Competitive Als also enhance the quality of the

products besides creating income opportunities. These industries have the potential for a significant global impact on economic development poverty reduction in both urban and rural communities. However, the full potential of Als as an engine for economic growth has not yet be in Pakistan.

South Punjab has a cluster of Als. These industries are facing serious difficulties due to the non-availability of relevant experts/technologists/engineers having hands-on skills to support their operational system. The department of agricultural engineering, MNSUAM has been already successfully launched a BSc Agro-industrial Engineering Technology Program since 2018. As per the need and scope of the advanced industry-based solutions, a postgraduate Program entitled M.Sc. (Hons.) Agro-industrial Engineering Technology is proposed. The MSc (Hons.) Agro-Industrial Engineering Technology Program curriculum has been developed in consultation with experts of agro-industries. The program offers strong industrial oriented education augmented with formal industrial research with multi-domain knowledge. It is believed that trained industry-specific experts would help decrease the cost of production and increase quality of industry produce. High-quality products would increase export, resultantly adding significant value to the national economy.

a) Entry/Admission Requirements

Four year "Agro Industrial Engineering Technology, Industrial Engineering Technology, Chemical Engineering Technology, Mechanical Engineering Technology, Food Science/Technology, Energy Engineering Technology and Industrial Engineering, Industrial Manufacturing Engineering, Industrial Engineering Management, Agricultural Engineering, Chemical Engineering, Mechanical Engineering, Energy Systems/Energy Engineering, Environmental Engineering, Food Engineering from HEC recognized University/Institute.

• Minimum CGPA of 2.50 out of 4.0 in bachelor's degree programs. Students from the annual system must have a minimum score of 60%. The percentage score will be considered only if the CGPA is not recorded/mentioned on the transcript.

• Entry Test: As per MNSUAM policy.

b) List of Courses

The department may offer courses from the given list, as per the availability of resources. The course to be offered each semester is at the discretion of the department. The lists of courses are given as following:





Course Code	Course Title	Credit Hours	
AIET-701	Industrial Energy Management	3(2-1)	
AIET-702	Process Integration and sustainability	3(2-1)	
AIET-703	Agro-Industrial Waste Management	3(2-1)	
AIET-704	International Industrial Standards and Quality Control	3(2-1)	
AIET-705	Optimization theory and applications	3(2-1)	
AIET-706	Heating, Ventilation and Air Conditioning	3(2-1)	
AIET-707	Livestock Engineering Technology	3(2-1)	
AIET-708	Feed Technology and Facilities	3(2-1)	
AIET-709	Plant Oil Extraction and Processing Technology	3(2-1)	
AIET-710	Project Management	3(2-1)	
AIET-719	Special Problem	1(1-0)	
AIET-720	Seminar	1(1-0)	
AIET-730	Research and Thesis	6(0-6)	

Compulsory Minor

STAT-707

Statistics for Engineers and Technologists

3(2-1)

The economy of Pakistan is primarily based on agriculture, which is contributing about 21% to its GDP, employing 45% of its work as contribution of this sector in the national economy is heavily dependent on adequate supply of irrigation water, state of the art as were as lowcost farm equipment and structures, and safe environment. At the same time, it is also needed to provide alternative energy sources and postharvest food preservation technologies to ensure food security as the post-harvest losses in fruits and vegetables reduce production by 25-40%. To cater the need of technological advancement and mechanization in the agriculture sector, the Department of Agricultural Engineering was established at Muhammad Nawaz Shareef University of Agriculture, Multan (MNS-UAM). Over the years, the department has developed an advanced infrastructure, hired qualified and accomplished faculty, and established well equipped laboratories for comprehensive training in water mechanization, environmental, industrial, and computer modeling aspects of agriculture. The department aims to excel in academic professionalism and entrepreneurial development in agricultural engineering and has opened its doors to the public to initiate dialogue through university industry linkage, outreach programs, internship for students and MOUs with public/private sectors.

Department Vision

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

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- 1. M.Sc. (Hons) Agro Industrial Engineering Technology
- 2. M.Sc. (Hons) Agricultural Engineering

1. M.Sc. (Hons) Agro Industrial Engineering Technology

Agriculture industries convert raw agricultural materials into value-added products by industrial and process technologies. Agro-based Industries (Als) create employment and generate income for both farming and non-farming community. Competitive Als also enhance the quality of the

1. M.Sc. (Hons) Agricultural Engineering

Pakistan is an agricultural country. The southern region of the country is rich in agriculture and has strong cluster of agro-based lustry. Being major employers for local manpower, both sectors are facing serious issues related to modern technologies and mechanization. For instance, the developed world has already adapted techniques based on energy efficient technologies in farm mechanization and smart agriculture. These modern approaches for the management of agricultural farms ensure higher energy efficiency and productivity. Similarly, a big cluster of agro-based industry seeks experts for immediate assistance in research and innovations. M.Sc. (Hons.) Agri. Engg. program at MNS-UAM has been specifically designed to meet the urgent need of smart solutions in the said area. MNS-UAM has already made multiple agreements with foreign institutions and has clear vision to produce engineers possessing specialized skills to meet the specific regional need.

The program aims to produce future agricultural engineers capable of introducing new methods of advanced agriculture and machinery in order to reduce dependence on manpower. In addition, they will be trained to improve water use efficiency and instigate advanced harvesting methods by adopting latest technologies. Moreover, the advancement in post harvesting techniques, energy conservation, and environmental monitoring and management are other important features of this program.

It is an award of agricultural engineering that our country is producing enough quantity of vegetables, fruits, and other natural crops of export quality. The demand of Agricultural Engineering is increasing day by day in Pakistan as the major portion of income comes from export of crops. The present and projected agricultural activities of the region demand a vibrant Agricultural Engineering program. Conclusively, M.Sc. (Hons.) Agri. Engg. Program at MNS-UAM will play a great role in meeting the needs of the region.

a) Entry/Admission Requirements

At the time of admission, the students must have:

- Four years Bachelor's degree in Agricultural/Civil/Mechanical/Water Resource Engineering from HEC recognized University/Institute.
- Minimum CGPA of 2.50 out of 4.0 in bachelor degree programs. Student from annual system must have minimum score of 60%. The percentage score will be considered only if the CGPA is not recorded/mentioned on the transcript.
- Entry Test: As per MNSUAM policy

DEPARTMENT OF AGRICULTURAL ENGINEERING

b) List of Courses

The department may offer courses from the given list, as per the availability of resources. The course to be offered in each semester is on the discretion of the department. The list of courses is given in the following tables:

Sr. No.	Course Code	Course Title	Credit Hours
1	AE-701	Planning and Design of Irrigation and Drainage Projects	3(2-1)
2	AE-702	Design of Hydraulic Structures	3(2-1)
3	AE-703	Advanced Agricultural Mechanization	3(2-1)
4	AE-704	Systems Modelling and Simulation	3(2-1)
5	AE-705	Groundwater Modelling	3(2-1)
6	AE-706	Engineering Hydrology and Modelling	3(2-1)
7	AE-707	Remote Sensing and GIS application for water management	3(2-1)
8	AE-708	Design and Implementation of High Efficiency Irrigation Systems	3(2-1)
9	AE-709	Wastewater Treatment and Implementation in Agriculture	3(2-1)
10	AE-710	Tillage and Traction Dynamics	3(2-1)
11	AE-711	Agricultural Processing and Storage	3(2-1)
12	AE-712	Advanced Robotics and Automation in Agriculture	3(2-1)
13	AE-713	Heat and Mass Transfer	3(2-1)
14	AE-719	Special Problem	1(1-0)
15	AE-720	Seminar	1(1-0)
16	AE-730	Research and Thesis	6(0-6)

Compulsory Minor

17	STAT-707	Statistics for Engineers and Technologists	3(2-1)
18	CS-701	Computer Programming	3(2-1)

DEPARTMENT OF AGRICULTURAL ENGINEERING





ENGR. DR. SARFRAZ HASHIM Position: Assistant Professor and HOD Qualification: Ph.D Expertise: Water Resource Engineering and Waste water treatment Email: sarfraz.hashim@mnsuam.edu.pk



ENGR. ABDUL ALEEM Position: Subject Expert Qualifications: M.Sc. (Hons.) Agricultural Engineering Expertise: Farm Mechanization Email: abdul.aleem17@yahoo.com



ENGR. DR. M. SAIFULLAH Position: Assistant Professor Qualification: Ph.D Expertise: Groundwater, climate change, numerical modeling Email: muhammad.saifullah@mnsuam.edu.pk



ENGR.DR. MOHSIN NAWAZ

Position: Assistant Professor Qualification: Ph.D Expertise: Water/Wastewater Treatment, Photocatalysis, Adsorptin mechanical cotton picking Email: mohsin.nawaz@mnsuam.edu.pk



ENGR. DR. UMAIR SULTAN Position: Assistant Professor Qualification: Ph.D Expertise: Thermal Power Engineering Email: umair.sultan@mnsuam.edu.pk



DR. SHAZIA HANIF Position: Assistant Professor Qualification: PhD Expertise: Energy and Environmental Engineering Email: shazia.hanif@mnsuam.edu.pk



DR. MUHAMMAD ABID Position: Assistant Professor Qualification: Ph.D Expertise: Condensed Matter Physics Email: muhammad.abid@mnsuam.edu.pk



ENGR. SHAHZAD AHMAD

Position: Lecturer (study Leave) Qualification: M.Sc. Engineering Expertise: Water Resource Engineering and RS & GIS Email: shazad.ok@outlook.com

DEPARTMENT OF AGRICULTURAL ENGINEERING





ENGR. FARRUKH EHSAN Position: Lecturer Qualification: M.Sc. Engineering Expertise: Farm Mechanization and Postharvest Processing Email: farrukh.ehsan@mnsuam.edu.pk



ENGR. DR. M. MOHSIN KHAN

Position: Lecturer Qualification: PhD Expertise: Water Resources and Remote Sensing Email: mohsin.khan@mnusam.edu.pk



ENGR. MUHAMMAD KASHIF

Position: Lecturer (study Leave) Qualification: M.Sc. Engineering Expertise: Energy and Environment Email: muhammad.kashif@mnsuam.edu.pk



ENGR. SAQIB YASEEN

Position: Lab Engineer Qualifications: B.Sc. Expertise: Industrial Manufacturing Email: sagib.yaseen@mnsuam.edu.pk



Postgraduate DEGICE Programs Offered



M.Sc. (Hons.)

Agronomy, Entomology, Food Science and Technology, Horticulture, Plant Breeding and Genetics, Soil Science, Plant Pathology, Seed Science and Technology, Biotechnology, Climate Change ,Postharvest Management Technology, Weeds Science, Human Nutrition and Dietetics, Agricultural Economics, Weed Science, Agricultural Engineering , Agro Industrial Engineering Technology Agriculture Extension

► MS

Computer Sciences Management- Agribusiness Specialization Fisheries and Aquaculture Public Health Poultry Science Zoology



Postgraduate Degree Programs Offered

Ph.D

Agronomy, Biotechnology, Entomology, Food Science and Technology, Horticulture, Plant Breeding and Genetics, Plant Pathology, Seed Science and Technology, Soil Science, Human Nutrition and Dietetics, Agricultural Economics Computer Science, Zoology



AGRONOMY

COURSE CODE	COURSE TITLE	CREDIT HOURS
AGRON-701	Advanced Agronomy	3(2-1)
AGRON-702	Crop Modeling	3(2-1)
AGRON-703	Agro-Meteorology	3(2-1)
AGRON-704	Allelopathy in Crop Production	3(2-1)
AGRON-705	Applied Crop Ecology	3(2-1)
AGRON-706	Crop Nutrition Management	3(2-1)
AGRON-707	Farming and Cropping Systems	3(2-1)
AGRON-708	Crop Production and Herbicides	3(2-1)
AGRON-709	Seed Physiology	3(2-1)
AGRON-710	Field Crop Experimentation	3(2-1)
AGRON-711	Stress Agronomy	3(2-1)
AGRON-712	Seed Science and Technology	3(2-1)
AGRON-713	Water Relations of Plants	3(2-1)
AGRON-714	Sustainable Agriculture	3(2-1)
AGRON-715	Climate Change and Agriculture	3(2-1)
AGRON-716	Weed Management	3(2-1)
AGRON-717	Recent Advances in Agronomy	3(3-0)
AGRON-718	Postharvest Technology of Crops	3(2-1)
AGRON-719	Special Problem	1(1-0)
AGRON-720	Seminar	1(1-0)

BIOTECHNOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
BIOTECH-701	BIOTECHNOLOGY: PRINCIPLE AND APPLICATIONS	3(2-1)
BIOTECH-702	BIOETHICS, BIOSAFETY AND BIOSECURITY	3(3-0)
BIOTECH-703	MOLECULAR CELL BIOLOGY	3(2-1)
BIOTECH-704	GENE EXPRESSION AND REGULATION	3(2-1)
BIOTECH-705	BIOREMEDIATION AND BIODEGRADATION	3(3-0)
BIOTECH-706	PLANT FORENSIC SCIENCE	3(2-1)
BIOTECH-707	TISSUE CULTURE AND SOMATIC CELL GENETICS	3(2-1)
BIOTECH-708	ADVANCES IN VIRAL GENOMICS	3(2-1)
BIOTECH-709	BIOINFORMATICS	3(2-1)
PBG-709	ADVANCES IN BREEDING SERIAL AND LEGUME CROPS	3(2-1)
PBG-710	ADVANCES IN BREEDING FIBRE AND OIL SEED CROPS	3(2-1)
PBG-711	ADVANCES IN BREEDING VEGETABLES AND FODDER CROPS	3(2-1)
BIOTECH-712	RECENT TRENDS IN BIOTECHNOLOGY AND NANO BIOTECHNOLOGY (FOR PhD)	3(3-0)
BIOTECH-713	ADVANCED GENOMICS, PROTEOMICS, AND METABOLOMICS (FOR PhD)	3(3-0)
BIOTECH-719	SPECIAL PROBLEMS	1(1-0)
BIOTECH-720	SEMINAR	1(1-0)

CLIMATE CHANGE

COURSE CODE	COURSE TITLE	CREDIT HOURS
	COMPULSORY MAJOR (11 CREDIT HOURS)	
CC-701	CLIMATE CHANGE IMPACT ASSESSMENT	3(2-1)
CC-702	CLIMATE CHANGE MITIGATION AND ADAPTATION STRATEGIES	3(3-0)
CC-703	ATMOSPHERIC SCIENCE	3(2-1)
CC-719	SPECIAL PROBLEM	1(1-0)
CC-720	SEMINAR	1(1-0)
	ELECTIVE MAJOR (MINIMUM 09 CREDIT HOURS)	
CC-704	CLIMATE SMART AGRICULTURE	3(2-1)
CC-705	AQUACULTURE AND CLIMATE CHANGE	3(2-1)
CC-706	BIODIVERSITY AND CLIMATE CHANGE	3(3-0)
CC-707	CLIMATE CHANGE AND LIVESTOCK	3(2-1)
CC-708	DISASTER RISK REDUCTION AND MANAGEMENT	3(2-1)
CC-709	AGRO-FORESTRY AND HORTICULTURE UNDER CHANGING CLIMATE	3(2-1)
CC-710	SOIL AND WATER CONSERVATION UNDER CLIMATE CHANGE	3(2-1)
CC-711	ECONOMICS OF CLIMATE CHANGE	3(3-0)
CC-712	CLIMATE CHANGE AND WATER RESOURCES	3(3-0)
AGRON-703	AGRO-METEOROLOGY	3(3-0)
ENT-703	ENVIRONMENTAL ENTOMOLOGY	3(3-0)
PP-713	PLANT PATHOLOGY AND CLIMATE CHANGE	3(3-0)
SES-714	BIO-SEQUESTRATION AND ENVIRONMENT	3(2-1)

ENTOMOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
ENT-701	RESEARCH METHODS IN ENTOMOLOGY	3(2-1)
ENT-702	ORIGIN AND PHYLOGENY OF INSECTS	3(3-0)
ENT-703	ENVIRONMENTAL ENTOMOLOGY	2(2-0)
ENT-704	ADVANCES IN PEST MANAGEMENT RESEARCH	3(2-1)
ENT-705	INSECT PATHOLOGY	3(2-1)
ENT-706	CHEMICAL ECOLOGY OF INSECTS	3(3-0)
ENT-707	FORENSIC ENTOMOLOGY	3(2-1)
ENT-708	MOLECULAR ENTOMOLOGY	3(2-1)
ENT-709	INSECTICIDE RESISTANCE AND MANAGEMENT	3(2-1)
ENT-710	INSECTS IN RELATION TO PLANT DISEASES	3(2-1)
ENT-711	MEDICAL AND VETERINARY ENTOMOLOGY	3(2-1)
ENT-712	INSECT REARING TECHNIQUES	3(2-1)
ENT-713	CLASSIFICATION OF IMMATURE INSECTS	3(2-1)
ENT-714	INSECT TOXICOLOGY	3(2-1)
ENT-716	INSECTICIDES AND PUBLIC HEALTH	3(2-1)
ENT-719	SPECIAL PROBLEM	1(1-0)
ENT-720	SEMINAR	1(1-0)

HORTICULTURE

COURSE CODE	COURSE TITLE	CREDIT Hours
HORT-701	MINERAL NUTRITION OF HORTICULTURAL CROPS	3(2-1)
HORT-702	PLANT GROWTH REGULATOR	3(2-1)
HORT-703	BIOTECHNOLOGY OF HORTICULTURAL CROPS	3(2-1)
HORT-704	PLANT TISSUE CULTURE	3(1-2)
HORT-705	POST-HARVEST PHYSIOLOGY	3(2-1)
HORT-706	ROOT STOCKS FOR HORTICULTURAL CROPS	3(2-1)
HORT-707	ADVANCE NURSERY PRODUCTION IN HORTICULTURE	3(2-1)
HORT-708	CITRICULTURE	3(2-1)
HORT-709	MANGO AND DATE PALM CULTURE	3(2-1)
HORT-710	MINOR FRUITS	3(2-1)
HORT-711	PRODUCTION AND HANDLING OF HORTICULTURAL SEEDS	3(2-1)
HORT-712	HORTICULTURAL PRODUCTION UNDER A-BIOTECH STRESSES	3(2-1)
HORT-713	SOLANACEOUS CROPS	3(2-1)
HORT-714	ADVANCES IN VEGETABLE SCIENCE	3(2-1)
HORT-715	MUSHROOM BIOLOGY AND TECHNOLOGY	3(2-1)
HORT-716	LAND SCAPE DESIGNS	3(2-1)
HORT-718	ADVANCES IN FRUIT SCIENCE	3(2-1)
HORT-719	SPECIAL PROBLEM	1(1-0)
HORT-720	SEMINAR	1(1-0)

FOOD SCIENCE & TECHNOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
FST-701	Food Biotechnology	3(2-1)
FST-702	Food Additives	3(2-1)
FST-703	Food Enzymology	3(2-1)
FST-704	Food Toxicology	3(3-0)
FST-705	Baking Science and Technology	3(2-1)
FST-706	Dairy Processing	3(2-1)
FST-707	Advances in Food Microbiology	3(2-1)
FST-708	Advances in Food Chemistry	3(2-1)
FST-709	Advances in Edible Fat and Oil Technology	3(2-1)
FST-710	Advances in Processed Meat Technology	3(2-1)
FST-711	*Food Quality Assurance Management	3(3-0)
FST-712	Food Industrial Waste Management	3(2-1)
FST-713	Advances in Beverage Technology	3(2-1)
FST-714	Post-Harvest Management	3(3-0)
FST-715	Food Packaging	3(2-1)
FST-716	**Recent Advances in Food Science and Technology	3(3-0)
FST-719	Seminar	1(1-0)
FST-720	Special Problem	1(1-0)

PLANT BREEDING AND GENETICS

COURSE CODE	COURSE TITLE	CREDIT HOURS
PBG-701	PRINCIPLE OF PLANT BREEDING	3(2-1)
PBG-702	BIOMETRICAL AND POPULATION GENETICS	3(2-1)
PBG-703	CROP BIOTECHNOLOGY AND MOLECULAR BREEDING	3(2-1)
PBG-704	CYTOGENETIC AND EVOLUTION OF CROP PLANT	3(2-1)
PBG-705	CROP BREEDING FOR BIOTIC AND ABIOTIC STRESSES	3(2-1)
PBG-706	CROP BREEDING FOR QUALITY AND BIO-FORTIFICATION	3(2-1)
PBG-707	PARTICIPATORY AND INTEGRATED CLIMATE SMART PLANT BREEDING	3(2-1)
PBG-708	ENTREPRENEURSHIP IN PLANT BREEDING	3(2-1)
PBG-709	ADVANCES IN BREEDING CEREAL AND LEGUMES CROPS	3(2-1)
PBG-710	ADVANCES IN BREEDING FIBER AND OIL SEED CROPS	3(2-1)
PBG-711	ADVANCES IN BREEDING VEGETABLES AND FODDER CROPS	3(2-1)
PBG-712	RECENT TRENDS IN CROP GENETICS AND CYTOGENETICS (FOR PhD)	3(2-1)
PBG-713	RECENT TRENDS IN CROP BREEDING AND EVOLUTION (FOR PhD)	3(3-0)
PBG-719	SPECIAL PROBLEM	1(1-0)
PBG-720	SEMINAR	1(1-0)

PLANT PATHOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
PP-701	MYCOLOGY	3(2-1)
PP-702	PLANT DISEASE, POPULATION BIOLOGY AND BIOTECHNOLOGY	3(2-1)
PP-703	FUNGAL PLANT PATHOLOGY	3(2-1)
PP-704	PLANT VIROLOGY	3(2-1)
PP-705	PLANT BACTERIOLOGY	3(2-1)
PP-706	PLANT NEMATOLOGY	3(2-1)
PP-707	ECOLOGY AND EPIDEMIOLOGY OF PLANT DISEASES	3(2-1)
PP-708	BIOCHEMISTRY AND PHYSIOLOGY OF DISEASED PLANTS	3(2-1)
PP-709	GENETICS OF PLANT PATHOGENS	3(3-0)
PP-710	SEED PATHOLOGY	3(2-1)
PP-711	INTEGRATED PLANT DISEASE MANAGEMENT	3(2-1)
PP-712	POST-HARVEST PATHOLOGY	3(2-1)
PP-713	PLANT PATHOLOGY AND CLIMATE CHANGE	3(3-0)
PP-714	ADVANCES IN PLANT PATHOLOGY (FOR PH.D.)	3(3-0)
PP-715	MOLECULAR PLANT VIROLOGY	3(2-1)
PP-716	MOLECULAR PLANT MICROBE INTERACTIONS (FOR PH.D.)	3(2-1)
PP-717	BIOLOGICAL CONTROL OF PLANT PATHOGENS	3(2-1)
PP-718	PLANT PATHOLOGY AND INTERNATIONAL OBLIGATIONS	3(2-1)
PP-719	SPECIAL PROBLEM	1(1-0)
PP-720	SEMINAR	1(1-0)

* Recent Advances in Food Science and Technology is compulsory for Ph.D. Food Science and Technology **Food Quality Assurance Management is compulsory for M. Sc. (Hons.) Food Science and Technology

POSTHARVEST MANAGEMENT TECH.

COURSE CODE	COURSE TITLE	CREDIT HOURS
PHT-701	Research Methods in Postharvest Technology	3(2-1)
PHT-702	Postharvest Technology of Crops and Seeds	3(2-1)
PHT-703	Agribusiness Marketing	3(3-0)
PHT-704	Pack House Operations and Transportation of Crop Produce	3(2-1)
PHT-705	Quarantine Pest Management and Export of Agricultural Produce	3(2-1)
PHT-706	Postharvest Pest Management of Perishable Crops	3(2-1)
PHT-707	Postharvest Pest Management of Cereals and Grain Legumes	3(2-1)
PHT-708	Postharvest Physiology of Agricultural Commodities	3(2-1)
PHT-709	Postharvest Pathology of Agricultural Commodities	3(2-1)
PHT-710	Quality Standards and Postharvest Processing	3(2-1)
PHT-719	Special Problem	1(1-0)
PHT-720	Seminar	1(1-0)
PHT-730	Research and Thesis	6(0-6)

SOIL SCIENCE

COURSE CODE	COURSE TITLE	CREDI HOUR
SES-701	SOIL CHEMISTRY	3(2-1)
SES-702	INSTRUMENTAL ANALYSIS AND ANALYTICAL TECHNIQUES	3(1-2)
SES-703	SOIL FERTILITY AND PLANT NUTRITION	3(3-0)
SES-704	SOIL MICROBIOLOGY AND BIOTECHNOLOGY	3(2-1)
SES-705	SOIL CLASSIFICATION	3(2-1)
SES-706	SALT-AFFECTED AND WATERLOGGED SOILS	3(3-0)
SES-707	SOIL PHYSICS	3(2-1)
SES-708	ADVANCES IN SOIL CHEMISTRY	3(3-0)
SES-709	ADVANCES IN SOIL FERTILITY	3(3-0)
SES-710	SOIL AND ENVIRONMENTAL MICROBIOLOGY	3(2-1)
SES-711	PRINCIPLES AND APPLICATIONS OF BIOREMEDIATION	3(3-0)
SES-712	SOIL MINEROLOGY	3(2-1)
SES-713	SOIL-PLANT-ENVIRONMENT RELATIONSHIP	3(3-0)
SES-714	BIO SEQUESTRATION AND ENVIRONMENT	3(2-1)
SES-715	ENVIRONMENTAL APPLICATION OF GIS AND REMOTE SENSING	3(2-1)
SES-719	SPECIAL PROBLEM	1(1-0)
SES-720	SEMINAR	1(1-0)

SEED SCIENCE AND TECHNOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
SST-701	ENVIRONMENTAL FACTORS AND SEED CROP PRODUCTION	3(2-1)
SST-702	VARIETY AND SEED LEGISLATION	3(3-0)
SST-703	SEED HEALTH MANAGEMENT AND QUARANTINE MEASURES	3(2-1)
SST-704	QUALITY ASSURANCE SYSTEMS IN SEED INDUSTRY	3(3-0)
SST-705	SEED BUSINESS MANAGEMENT AND ENTREPRENEURSHIP	3(3-0)
SST-706	ADVANCES IN SEED PRODUCTION	3(2-1)
SST-707	SEED BIOTECHNOLOGY	3(3-0)
H0RT-707	ADVANCE NURSERY PRODUCTION IN HORTICULTURE	3(2-1)
SST-708	STATISTICS IN SEED RESEARCH	3(2-1)
SST-709	POST-HARVEST PHYSIOLOGY	3(3-0)
AGRON-709	SEED PHYSIOLOGY	3(2-1)
SST-710	SEED AND AGRICULTURAL MARKETING	3(3-0)
SST-711	PLANT NUTRITION FOR SEED CROPS	3(3-0)
HORT-711	PRODUCTION AND HANDLING OF HORTICULTURAL COPS SEEDS	3(2-1)
SST-719	SPECIAL PROBLEM	1(1-0)
SST-720	SEMINAR	1(1-0)

WEED SCIENCE

COURSE CODE	COURSE TITLE	CREDIT HOURS
WS-701	Systematics and Ecology of Weeds	3(2-1)
WS-702	Weed Physiology and Herbicidal Action in Plants	3(2-1)
WS-703	Modeling Crop-Weed Interactions	3(2-1)
WS-704	Research Methods in Weed Science	3(0-3)
WS-705	Rhizopheric Interactions and Weed Seed Bank Dynamics	3(2-1)
WS-706	Automation and Mechanization in Weed Control	3(2-1)
WS-707	Weed-Insect-Pathogen Interaction	3(2-1)
WS-708	Weed Biotechnology	3(2-1)
WS-709	Weed Seed Dispersal and Management	3(2-1)
WS-710	Environmental Economics and Weeds	3(2-1)
AGRON-708	Herbicides: Technical Aspects and Safe Use	3(2-1)
AGRON-716	Applied Weed Management	3(2-1)
WS-719	Special Problem	1(1-0)
WS-720	Seminar	1(1-0)

Human Nutrition And Dietetics

COURSE CODE	COURSE TITLE	CREDI HOUR
HND-701	Maternal and Child Nutrition	3(3-0)
HND-702	Nutrigenomics and Proteomics	3(2-1)
HND-703	*Clinical Nutrition and Dietetics	3(1-2)
HND-704	Complementary Nutrition for Health Promotion	3(2-1)
HND-705	Physiology of Digestion and Metabolism	3(2-1)
HND-706	Molecular Physiology and Immunology of Nutrition	3(2-1)
HND-707	**Recent Advances in Nutrition and Dietetics	3(3-0)
HND-708	Food and Nutritional Security: Policy to Practice	3(3-0)
HND-709	Sports and Exercise Nutrition	3(2-1)
HND-710	Applied Dietetics	3(2-1)
HND-711	Social and Behavioral Aspects of Public Health	3(3-0)
HND-712	Pediatric and Geriatric Nutrition	3(3-0)
HND-713	Professional Dietetics Practices	3(3-0)
HND-714	Public Health Nutrition	3(2-1)
HND-715	Nutritional Epidemiology & Research Methods	3(2-1)
HND-716	International Nutrition	3(3-0)
HND-717	Public Health Microbiology	3(2-1)
HND-719	Special Problem	1(1-0)
HND-720	Seminar	1(1-0)

*Clinical Nutrition and Dietetics (HND-703) will be compulsory for MSc. (Hons.) Human Nutrition and Dietetics

**Recent Advances in Nutrition and Dietetics (HND-707) is compulsory for Ph.D. Human Nutrition and Dietetics

AGRICULTURAL ECONOMICS

COMPULSORY COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
AE-701	ADVANCED MICROECONOMIC	3(3-0)
AE-702	MATHEMATICAL METHODS IN ECONOMICS	3(3-0)
AE-703	ADVANCED MACROECONOMIC	3(3-0)
AE-704	ADVANCED RESEARCH METHODS IN SOCIAL SCIENCES	3(3-0)
AE-705	ECONOMETRICS TECHNIQUES AND APPLICATIONS	3(2-1)
STAT-705	STATISTICAL METHODS IN SOCIAL SCIENCES	3(3-0)
AE-719	SPECIAL PROBLEM	1(1-0)
AE-720	SEMINAR	1(1-0)
AE-730	RESEARCH AND THESIS	6(0-6)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
AE-706	ADVANCED PRODUCTION ECONOMICS	3(3-0)
AE-707	ECONOMIC DEVELOPMENT IN DEVELOPING COUNTRIES	3(3-0)
AE-708	PROJECT ANALYSIS AND EVALUATION	3(3-0)
AE-709	INTERNATIONAL ECONOMICS	3(3-0)
AE-710	LABOR ECONOMICS	3(3-0)
AE-711	ENERGY ECONOMICS	3(3-0)
AE-712	ENVIRONMENTAL ECONOMICS	3(3-0)
AE-713	ISLAMIC ECONOMICS	3(3-0)
AE-714	AGRICULTURAL POLICY ANALYSIS	3(3-0)
AE-715	LIVESTOCK ECONOMICS	3(3-0)
AE-716	TOPICS IN RURAL DEVELOPMENT	3(3-0)
AE-717	CLIMATE CHANGE: IMPACTS, ADAPTATION AND MITIGATION	3(3-0)
AE-718	ECONOMICS OF LAND AND WATER RESOURCES	3(3-0)
MAB-708	AGRO VALUE CHAIN MANAGEMENT	3(2-1)
MAB-713	ENVIRONMENTAL MANAGEMENT	3(3-0)

MS (MANAGEMENT- AGRIBUSINESS SPECIALIZATION)

COMPULSORY COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
MAB-701	ENTREPRENEURSHIP IN AGRICULTURE	3(3-0)
MAB-702	GLOBALIZATION AND TRADE DEVELOPMENTS	3(3-0)
MAB-703	Strategic Corporate Finance	3(3-0)
MAB-704	Strategic Marketing Management	3(3-0)
MAB-705	Strategic Agribusiness Management	3(3-0)
MAB-706	Advanced Research Methods	3(3-0)
STAT-705	STATISTICAL METHODS FOR BUSINESS MANAGEMENT	3(3-0)
MAB-719	SPECIAL PROBLEM	1(1-0)
MAB-720	SEMINAR	1(1-0)
MAB-730	RESEARCH AND THESIS	6(0-6)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
MAB-707	AGRO VALUE CHAIN MANAGEMENT	3(2-1)
MAB-708	Managerial Accounting and Control Systems	3(3-0)
MAB-709	BUSINESS ECONOMICS	3(3-0)
MAB-710	LIVESTOCK AND DAIRY BUSINESS MANAGEMENT	3(3-0)
MAB-711	POULTRY BUSINESS MANAGEMENT	3(3-0)

COMPUTER SCIENCES

COURSE CODE	COURSE TITLE	CREDIT HOURS
CS-701	Advanced Analysis of Algorithms	3(3-0)
CS-702	Advanced Operating Systems	3(3-0)
CS-703	Theory of Programming Languages	3(3-0)
CS-705	Advanced Computer Architecture	3(3-0)
CS-709C	Advanced Theory of Automata	3(3-0)
S-719	Special Problem	1(1-0)
CS-720	Seminar	1(1-0)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
CS-704	*Research Methodology	3(3-0)
CS-706	Machine Learning	3(3-0)
CS-707	Advanced Networking	3(3-0)
CS-708	Cryptography	3(3-0)
CS-710	Advanced database systems	3(3-0)
CS-711	Remote Sensing and GIS Application in Agriculture	3(3-0)
CS-712	Computer Vision	3(3-0)
CS-713	Deep Learning	3(3-0)
CS-714	Network Security	3(3-0)
CS-715	Advanced Requirements Engineering	3(3-0)
CS-716	Advanced Human Computer Interaction	3(3-0)
CS-717	Statistical Methods in Computational Sciences	3(3-0)
CS-718	Semantic Web	3(3-0)
CS-721	Computational Economics	3(3-0)
AE-708	Project Analysis and Evaluation	3(3-0)
CS-723	Business Intelligence and Analytics	3(3-0)
CS-724	Big Data Analytics	3(3-0)

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AGRICULTURAL EXTENSION

COMPULSORY MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
EXT-701	Extension Education Methods	3(2-1)
EXT-702	Programme Planning in Agricultural Extension	3(2-1)
EXT-716	Advanced Positivistic Research in Agricultural Extension	3(2-1)
EXT-718	Interviewing and Communication Skills	3(2-1)
EXT-719	Special Problem	1(1-0)
EXT-720	Seminar	1(1-0)
EXT-721	Agricultural Finance Management	3(3-0)
EXT-730	Research and Thesis	6(0-6)

Compulsory Minor Courses

COURSE	COURSE	CREDIT
CODE	TITLE	HOURS
STAT-705	Statistical Methods in Social Sciences	3(3-0)

Elective Courses

COURSE CODE	COURSE TITLE	CREDIT HOURS
EXT-703	Supervised Field Experience	3(1-2)
EXT-704	Monitoring and Evaluation in Agricultural Extension	3(2-1)
EXT-705	Communication Strategies in Agricultural Extension	3(2-1)
EXT-706	Sustainable Rural Livelihood	3(3-0)
EXT-707	Scientific and Technical Writing	3(2-1)
EXT-708	Application of Information and Communication	3(2-1)
	Technologies (ICTs) in Agricultural Extension	
EXT-709	Human Resource Development	3(2-1)
EXT-710	Gender Mainstreaming for Community Development	3(2-1)
EXT-711	International Agricultural Extension Systems	3(2-1)
EXT-712	Psychology of Adult Learning and Continuing Education	3(2-1)
EXT-713	Extension Management and Administration	3(3-0)
EXT-714	Managing Learning Experiences in Agricultural	3(3-0)
	Extension Education	
EXT-715	Diffusion and Adoption of Innovations	3(2-1)
EXT-717	Qualitative Research Methods	3(2-1)



MS Zoology MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
Z00L-701	Advanced Analytical Techniques	3(2-1)
Z00L-702	Principles of Parasitology	3(2-1)
Z00L-703	Advances in Aquaculture	3(2-1)
Z00L-704	Advances in Biodiversity	3(2-1)
Z00L-706	Animal Pest and disease producing organisms	3(2-1)
Z00L-707	Biology and Control of Vertebrate Pests	3(2-1)
Z00L-708	Vector Biology	3(2-1)
Z00L-709	General Principles of Physiology	3(2-1)
Z00L-710	Ornithology	3(2-1)
Z00L-711	Fish Biology	3(2-1)
Z00L-712	Endocrinology	3(2-1)
Z00L-719	Special Problem	1(1-0)
Z00L-720	Seminar	1(1-0)
Z00L-730	Research and Thesis	6(0-6)

TRACK FOR MAJOR FISHERIES

COURSE CODE	COURSE TITLE	CREDIT HOURS
Zool-725	Aquatic Pathobiology	3(2-1)
Zool-726	Fish Requirements	3(2-1)
Zool-727	Aquatic Toxicology	3(2-1)
Zool-728	New Trends in Fisheries and Aquaculture	3(3-0)
Z00L-729	Advances in Ichthyology	3(2-1)

TRACK FOR MAJOR WILDLIFE

COURSE CODE	COURSE TITLE	CREDIT HOURS
Zool-734	Advances in Wildlife	3(2-1)
Zool-731	Wildlife Conservation Biology	3(3-0)
Zool-732	Wildlife Management-I (Wetlands)	3(2-1)
Zool-733	Wildlife Management-II (Terrestrial)	3(2-1)

Elective /Specialized Courses TRACK FOR MAJOR PARASITOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
PARA-713	Medical Parasitology	3(2-1)
PARA-714	Medical Entomology	3(2-1)
PARA-715	Wildlife Parasitology	3(2-1)
PARA-716	Helminthology and Host-parasite relationship	3(2-1)
PARA-717	Diagnostic Parasitology	3(2-1)

TRACK FOR MAJOR ANIMAL PHYSIOLOGY

COURSE CODE	COURSE TITLE	CREDIT HOURS
PHYSIO-718	Physiology of coordination and animal behavior	3(2-1)
PHYSIO-721	Reproductive Physiology	3(2-1)
PHYSIO-722	Molecular Physiology	3(2-1)
PHYSIO-723	Physiology of Respiration and Cardiovascular System	4(3-1)
PHYSIO-724	Physiology of Digestion and Metabolism	4(3-1)

MS POULTRY SCIENCES

MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
PS-701	Poultry Breeding and Production	3(2-1)
PS-702	Hatchery Operation and Management	3(2-1)
PS-703	Poultry Housing and Environment	3(2-1)
PS-705	Poultry Feeding Management	3(2-1)
PS-707	Poultry Health and Hygiene	3(2-1)
PS-719	Special Problem	1(1-0)
PS-720	Seminar	1(1-0)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
PS-704	Egg and Egg Products	2(1-1)
PS-706	Poultry Meat and Meat Products	3(2-1)
PS-708	Advanced Poultry Production	3(2-1)
PS-709	Avian Physiology	2(1-1)
PS-710	Avian Embryology	2(1-1)
PS-711	Recent Advances in Poultry Sciences	3(2-1)
PS-712	Quail Farming	3(2-1)
PS-713	Organic Poultry Farming	3(2-1)
PS-714	Backyard Poultry Production	2(1-1)
PS-715	Biosecurity of Poultry Enterprises	3(2-1)
PS-716	Poultry Business Dynamic	3(2-1)
PS-717	Poultry Behavior and Welfare	2(1-1)



PUBLIC HEALTH MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
MSPH-702	BASIC EPIDEMIOLOGY	3(3-0)
MSPH-708	ONE HEALTH ONE MEDICINE: A GLOBAL HEALTH APPROACH	3(3-0)
MSPH-713	HEALTH EDUCATION AND HEALTH PROMOTION	3(2-1)
MSPH-718	ZOONOTIC DISEASES FROM PUBLIC HEALTH PERSPECTIVE	3(3-0)
MSPH-719	SPECIAL PROBLEM	1(1-1)
MSPH-720	SEMINAR	1(1-0)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
MSPH-703	Basic Biostatistics and Computer Applications	3 (2-1)
MSPH-704	Introduction to Evidence Based Public Health	2 (2-0)
MSPH-705	Qualitative Research Methods in Public Health	3 (2-1)
MSPH-706	Environmental Health	3(2-1)
MSPH-707	Social and Behavioral Aspects of Public Health	2(1-1)
MSPH-709	Agricultural Safety and Health	3(3-0)
MSPH-710	Culture, Health and Illness	2(2-0)
MSPH-711	Introduction to Global Health	3(3-0)
MSPH-714	Health Systems Management	3(3-0)
MSPH-715	Applied Nutrition	3(3-1)
MSPH-716	Health Policy	3(3-0)
MSPH-717	Hospital Management	2(1-1)

MS FISHERIES AND AQUACULTURE MAJOR COURSES

COURSE TITLE	CREDIT HOURS	
Principles of Aquaculture	2(1-1)	
Aquaculture Nutrition	3(2-1)	
lchthyology	3(2-1)	
Advanced Fish Biology	2(1-1)	
Introductory Fish Culture	2(1-1)	
Special Problem	1(1-0)	
Seminar	1(1-0)	
	TITLE Principles of Aquaculture Aquaculture Nutrition Ichthyology Advanced Fish Biology Introductory Fish Culture Special Problem	

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
FSAQ-702	Aquatic Ecology & Management	3(2-1)
FSAQ-704	Fish Farm and Hatchery Management	3(2-1)
FSAQ-705	Shrimp and Prawn culture	3(2-1)
FSAQ-706	Aquatic Pathobiology	2(1-1)
FSAQ-707	Fish Diversity and Conservation	3(2-1)
FSAQ-709	Aquatic Eco-toxicology	2(1-1)
FSAQ-710	Aquaculture Genome Technology	3(2-1)
FSAQ-711	Ornamental Fishes & Aquaria	2(1-1)
FSAQ-712	Fisheries and Oceanography	3(2-1)
FSAQ-713	Postharvest Technology	3(2-1)
FSAQ-714	Fish Processing and Quality Standards	3(2-1)
FSAQ-715	Aquaculture Marketing and Economics	2(2-0)
FSAQ-716	New Trends in Fisheries &Aquaculture	3(2-1)





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 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 7th day of commencement of classes
Half (50%) Refund of entry fee and total dues/hostel dues deposited Excluding admission	From 8th – 5th day of commencement of classes
No (0%) Refund	From 16th 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

Forms-for-Postgraduate-Students-

Declaration Postgraduate students [MSc (Hons)/MS/M Phil]

I hereby declare that the contents of the thesis, "_____" are product of my own research and no part has been copied from any published source (except the references, standard mathematical or genetic models/ equations/ formulae/protocols etc.). I further declare that this work has not been submitted for award of any other diploma/degree. The University may take action if the information provided is found incorrect at any stage".

Signature

(Name of the student)



Declaration to be Submitted on a Judicial Paper at the Time of Enrolment in the Office Of Director Graduate Studies, MNS University of Agriculture, Multan.

- 1. On admission to the privilege of being a student I shall undertake to abide by the following:
- 1.1 that during my stay in the University I shall diligently apply myself to acquire and develop and 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 in the examination;
- 1.4 that I shall maintain identity as student of the University by wearing of the gown and / or badge 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 others 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 that in case of a 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, regulations and rules enforce in the University or the statutes, regulation and rules as may hereafter be framed by the appropriate authorities of the University.
- 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;
- 2. Further, I undertake to refrain from:
- 2.1 doing anything which may cause injury or insult to Head of the Institution, teachers, officers and other staff of the institution.
- 2.2 holding a gathering or meeting of 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 expelled students, anti-social elements or other groups presence of whom on the campus shall 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 or moral turpitude;

Affidavit (I)

- 2.6 bring 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 and damaging any University property, including building, equipment's vehicles, etc. in any manner;
- 2.9 form all such acts and deeds as might bring discharge and bad name of the University.
- 2.10 breach all such acts and deeds as might bring discharge and bad name of the University

Modifications in Rules and Regulations

2.11 The rules and regulations governing various aspects of student's life at the University (such as discipline, admission, examination, migration, fees and charges etc.) are given in this prospectus as they stood at the time of its publication. There is no guarantee that these rules and regulations will remain unchanged throughout a student's stay at the University, nor does it in any way restrict or curtail the inherent powers for the University Authorities to modify them whenever in their judgment any modifications are called for, and to implement the modified rules and regulations from a date which they deem appropriate

Signature of Father/Guardian ______Signature of Applicant_____

No. of National Identity Card of Father / Guardian ______ with place of issue _____

Dated

Affidavit-Undertaking (II)

a. I, Mr./Ms	CNIC No.	
Resident of (address with UC No.)		

do hereby declare on oath/solemn at on

that my University Regd. No. is and studying in

course/if admitted in the University as student, will not indulge in "Politics." In case on having been found indulging in "Politics" the findings/decision of the Vice Chancellor, MNS University of Agriculture, Multan (Head of Institution) shall be final and not be questioned except only before the Supreme Court of Pakistan. Moreover, I hereby declarer on oath that I have not been on the pay roll of any Govt./private institution. If I am found involved in any kind of job/employment and do not have official NOC from concerned department for studying in University, the University reserves the right to cancel/withdraw/revoke my degree. The contents of above affidavit are true to the best of my knowledge and belief and nothing has been concealed.

DEPONENT

b. I, Mr. ______do hereby declare at

on

son/daughter/deponent will be final and shall not be question except before the Supreme Court of Pakistan.

DEPONENT

Attested by:

Oath Commissioner/Gazetted Officer/

Respective Nazim Union Council with Official Stamp

Name:

Designation:

Affidavit-Undertaking (II)

MNS	UNVERSITY OF AGRICULTURE, MULTAN		
Perfo	orma for Synopsis (GS/5)		
(Syn	opsis for MSc (Hons)/M Phil/MS/PhD		
Page	I Tittle		
	e of student		
	ract		
Page			
I.	Title		
II.	a) Date of Admission	c)Probable Duration (Research)	
III.	PERSONNEL:		
Name	e of Student		
a)	Deviaturation Neuraleau		
b)	Supervisory Committee		
I.		(Supervisor)	
II.		 (Co-supervisor)	
III.		(Member)	
IV.		 (Member)	
IV. Ne	ed for project/Introduction	V. Review of Literature	
VI.Ma	aterials and Methods/Methodology	VII.References/Literature Cited	

(Supervisory Committee)

Name

a	Supervisor
b	Co-supervisor
C	Member
d	Member
Forwarded: Chairperson	
Department	
Faculty Scrutiny Committee:	
a)	
b)	
C)	
d)	
Reviewed and Witnessed: Dean Faculty of	

Instructions

All MSc (Hons)/M Phil/MS students have to submit their synopsis for their Dissertation preferably up to 2nd semester while PhD up to 3rd semester

Abstract of the synopsis should be between 150 to 250 words

Faculty scrutiny committee Member(S) should be other than supervisory committee

Signature_

Role of the Faculty Scrutiny Committee

Faculty Member(s) has / have to check:

- ü Technical aspects of the research
- ü Scope of the research weather it relates to the field or not
- ü Addressing the current issues of the practical nature
- ü The research facilities are available at the campus
- ü Review of literature is related to the title
- ü Number of citation should not be less than fifteen
- ü Synopsis is according to the format (GS-5)

Performa for Course Work Program (GS/12)

(COURSE WORK FOR MSc (Hons)/MS/M Phil/PhD)

INSTITUTE/DEPARTMENT Ш NAME OF THE STUDENT REGD NO. DATE OF ADMISSION IV V NAME OF THE SUPERVISOR VI SUPERVISORY COMMITTEE I) _____ (Supervisor) ii) _____ (Co-Supervisor, if any) iii) (Member) iv) (Member) **COURSE WORK** Course No. Title of the course Credit hours Major courses a) b) Minor courses Compulsory minor courses C) Deficiency courses d) e) Audit courses Dean, Faculty of _____ Chairperson, Department of

Director Graduate Studies, MNS U.A., Multan.

<u>Performa.for,Progress,Report.of,MSc(Hons)/M.Phil/MS/PhD.Students.(GS/13,Part A).</u> (to be filled in by the student)

Institute	/Department	Faculty
1.	Name of the student	Regd.#
2.	Date of admission	No. of semester completed
3.	Course work approved(Yes/No)	Synopsis Approved. (Yes/No)
4.	Employment Status	University/Govt./Private/Other
Supervi	sory committee:	
1.	(Supervisor)	
2.	(Member)	
3.	(Member)	
5. Progr	ress in course work programme(enrolled course)	
a)	No. of credit enrolled.	
b)	No. of credit qualified	
C)	GPA/CGPA	
6. Progr	ress in research (given details)	
I.	The student has completed the course within the prescribed limit a	and he did not fail.

II. Prescribed time (Date/Month) for completion of the course / program and that it is expected to complete the course / program till that time.

Part B (to be filled in by the Supervisor)

7.	Comments and recommendations of the Supervisor:
a)	The performance in course work program.
b)	Performance in research
(Time sp	ent and result achieved)
(Signatu	re of the Supervisor)
(Chairpe	rson of the Department)
(Dean of	the Faculty)
Applicati	on for Re-Admission to Winter/Spring/ Summer Semesters
DEGREE	
INSTITU	TE/DEPARTMENT
FACULTY	·
Name of	Student.
	ion Number
1.	Number of Semesters Completed
2.	Whether Permitted to Discontinue or Not.
3.	Reference of Permission
4.	If discontinue without permission or struck off the rolls give specific reasons for absence
Give deta	ils with documentary evidence
SIGNATI	JRE OF THE APPLICANT
5.	Comments and recommendations of the Supervisor:
a)	Performance in course work program:
b)	Performance in Research (Time spent and result achieved):



- c) General remarks:
- d) Any other remarks:
- e) SIGNATURE OF THE SUPERVISOR
- 6. Remarks of the Chairperson of the Department:
- 7. Remarks of the Dean of the Faculty:

In case the name has been struck off due to absence from classes, the parents/guardian shall have to give a assurance (on personnel appearance) for regular attendance and good conduct of the student in future.



Application_for_Discontinuation_of_Studies

DEGREE

INSTITUTE/DEPARTMENT_____

FACULTY _____

- 1. Name of Student.
- 2. Registration Number_____
- 3. Number of Semesters Completed
- 4. Semester for which studies are to be discontinued
- 5. Specific reasons for discontinuation of studies (give details)

SIGNATURE OF THE APPLICANT

Comments and recommendations of the Supervisor:

- a) Performance in course work program:
- b) Performance in Research (Time spent and result achieved):
- c) General remarks:
- d) Any other remarks:

SIGNATURE OF THE SUPERVISOR

Remarks of the Chairperson of the Department:

Remarks of the Dean of the Faculty:

Note: The discontinuation of studies will be allowed for one semester only.



MNS University of Agriculture, Multan

Application Form for Post-Graduate Examinations (THESIS/COMPREHENSIVE)

E-30 Form

Application Form for Postgraduate Examinations (THESIS/COMPREHENSIVE)

To be filled in duplicator by the candidate in his own handwriting. Prescribed admission for the M.Sc./ M.Sc. (Hons)/M. Phil. and Ph.D. shall be deposited in designated Bank Branch of Muhammad Nawaz Shareef University of Agriculture, Multan.

Degree:	Subject:	Institute/Department:	
Name of candidate:		Regd. No. Faculty:	
Father's Name:		Semester of Admission:	
Date of Approval of Course Wo	rk on Permanent Status:		
Tentative Date of Submission T	hesis/Research Report/Research Project: _		
Permanent Home Address:			
Previous Degree	Yea	ar of Passing: Institute:	

Course No.	Complete Title of Course	Credit Hours	Semester/ Summer Session	Name of the Teacher	Total Marks	Marks Obtained
	A-MAJOR COURSES					

B-MINOR COURSES

C-DEFFICIENCIES/AUDIT/ COMPULSORY MINOR COURSES Subject of Thesis as approved by GSRB/BASR /Title of Research Report Project:

Date of A	opproval					
Name of	the Supervisory					
Commit	tee Members	1	(Supervisor)	3		(Member)
		2	(Member)	4		
Fee Rs.		Paid vide	Bank Challan No		Dated	(A copy enclosed)
l solemn	ly declare that the	information given in the for	m is correct to best of my knowledge a	nd belief.		
Dated			Signature of t	he Student		
Certified	that Mr./Miss		has worked under my guidance on	the above projec	ct and the research done is	s his bonafide work.
Dated		Signature of S	upervisor			
Certified	l that:					
a)	The candidate be	ears a good moral characte	r.			
b)	He attempted at I	east 75% lectures and prac	tical in the course mentioned on above	1& 2 page.		
C)	Is a fit person to b	be admitted to the examina	ion			
Dated		Signature of the Chairm	an Department			
Dated		Signature of the Dean o	Faculty			
Certified	that the candidate	e was admitted by BGSR to	the M. Sc./M. Sc. (Hons)/M. Phil/Ph. [) courses during	the winter/spring semes	sterand the

course work, the members of Supervisory committee and the subject of the synopsis were duly approved. He has fulfilled the residential requirements.

DIRECTOR GRADUATE STUDIES

MNS University of Agriculture, Multan

Observation Form for Thesis Submission

Obser	vation on MS/M.Sc. (Hons.)/M Phil/PhD thesis of
Mr./M	s./Mrs.
Institu	te/Department of
Facult	y of
1.	Title
2.	Whether processed through Supervisor/Head of the Department.
3.	Title according to the approved Synopsis.
4.	Whether submitted on prescribed form 75 pages.
5.	Thesis is written under limit of 75 pages.
6.	Thesis is written under prescribed section.
7.	Total number of references quoted in thesis.
8.	References in Introduction.
9.	References in Review of Literature.
10.	References in Materials and Methods/Methodology.
11.	References digested in Discussion.
12.	References given in Chronological sequence.
13.	Bibliography.
14.	Table of Contents.
15.	Acknowledgements brief and relevant.
16.	Tables and their headings are given in proper format prescribed.
17.	References given in prescribed form.

FOR OFFICE USE

18.	Statistical data checked and following observations are recorded:-
19.	General Observations.
Instruct	ion complied with final typing may be permitted.
Applicat	ion for Discontinuation of Studies
DEGRE	:
INSTITU	TE/DEPARTMENT
FACULT	Υ
1.	Name of Student
2.	Registration Number
3.	Number of Semesters Completed
4.	Semester for which studies are to be discontinued
5.	Specific reasons for discontinuation of studies (give details)

SIGNATURE OF THE APPLICANT

Comments and recommendations of the Supervisor:

- a) Performance in course work program:
- b) Performance in Research (Time spent and result achieved):
- c) General remarks:
- d) Any other remarks:

SIGNATURE OF THE SUPERVISOR

Remarks of the Chairperson of the Department:

Remarks of the Dean of the Faculty:

Note: The discontinuation of studies will be allowed for one semester only.

Author's Declaration (For PhD)

hereby state that my Ph.D. thesis titled

is my own work and has not been submitted previously by me for taking any degree from this University ______ or anywhere else in the

country/world.

At any time if my statement is found to be incorrect even after my graduate the university has the right to withdraw my Ph.D. degree".

Name of Student:-____

Registration No.:-_____

Date:-____

Certificate for Approval

This is to certify that the research wor	k presented in this thesis, entitled	was conducted by Mr/M	ls under the
supervision of	No part of this thesis has been submitted	anywhere else for any other degree.	This thesis is submitted to the
	in partia	I fulfillment of requirements for the degr	ree of Doctor of Philosophy in field
of Institute/Department			
University of			
Student Name:	Signature		
Examination Committee			
a) External Examiner 1	Signature		
(Designation and Office Address)			
b) External Examiner 2	Signature		
(Designation and Office Address)			
c) Internal Examiner	Signature		
(Designation and Office Address)			
Supervisor Name:	Signature		
Name of Dean/HOD:	Signature		

Plagiarism Undertaking

I solemnly declare that research work presented in thesis titled

is solely my research work with no significance contribution from any other person. Small contribution/help wherever taken has been dully acknowledged and that complete thesis has been written by me. I understand the zero tolerance policy of the HEC and University

(Name of University) towards plagiarism. Therefore I as an author of the above titled thesis declare that no portion of my thesis has been plagiarised and any material used as reference is properly referred / cited.

I undertake that if I am found guilty of any formal plagiarism in the above titled thesis even after the award of Ph.D. degree, the University reserves the right to withdraw/revoke my Ph.D. degree and that the HEC and the University has the right to publish my name of the HEC/ University website on which names of students are placed who submitted plagiarized thesis.

Student/Author Signature:-_____

Name:-_____

Registration No.:-

APPENDIX -I

Overall Allocation of Seats for Postgraduate Programs

overall Anotation of ocats for rostgraduate rograms				
SERIAL NO	DISCIPLINE	SEATS M.Sc. (Hons.)/MS	Ph.D	
1	Agronomy	35	10	
2	Management-Agribusiness Specialization	30	-	
3	Agricultural Economics	30	10	
4	Agricultural Extension	20	-	
5	Agro industrial engineering technology (AIET)	20	-	
6	Agricultural Engineering	20		
7	Energy System Engineering	20	-	
8	Biotechnology	25	5	
9	Climate Change	25		
10	Computer Science	35	10	
11	Entomology	30	10	
12	Fisheries and Aquaculture	10	-	
13	Food Science & Technology	20	5	
14	Human Nutrition and Dietetics	20	5	
15	Horticulture	35	10	
16	Plant Breeding & Genetics	30	7	
17	Postharvest Management Technology	35	-	
18	Public Health	55	-	
19	Plant Pathology	30	10	
20	Poultry Science	10	-	
21	Soil Science	30	8	
22	Seed Science and Technology	20	7	
23	Weed Science	10	-	
24	Zoology	45	12	

APPENDIX -II

Fee Structure for Postgraduate Degree Programs

	U	<u> </u>	
SERIAL NO.	DEGREE PROGRAM	FIRST SEMESTER (RS.)	SUBSEQUENT SEMESTER (RS.)
1	M.Sc. (Hons.) Agriculture, (All Majors)		
2	M.Sc. (Hons.) Management Agribusiness Specialization		
3	MS Fisheries & Aquaculture		
4	MS Poultry Science		
5	MS Zoology		
6	M.Sc. (Hons.) Climate Change		
7	M.Sc. (Hons.) Postharvest Management Technology		
8	M.Sc. (Hons.) Seed Science & Technology	46,000	40,500
9	M.Sc. Agro Industrial Engineering Technology		
10	M. Sc (Hons) Agricultural Engineering		
11	M.Sc (Hons.) Remote Sensing and GIS		
12	M.Sc (Hons.) Energy System Engineering		
13	MS Animal Nutrition		
14	MS Computer Science		
15	MS Information Technology	55200	46,000
16	MS Data Science		
17	MS Public Health		
18	MS Human Nutrition & Dietetics	55,200	49,500
19	MBA	46,000	40,500
20	MBA Executive	56,000	46,000
21	Foreign Students (M.Sc Hons.). USD	306	255
22	Ph.D. in all disciplines (Without Scholarship)	57,500	46,000
23	Ph.D. in all disciplines (With Scholarship)	57,500	55,000
24	Foreign Students (Ph.D). USD	1,200	1,000
	Hostel Charges		
25	(The Charges including boarding, lodging, utilities etc.	16,000	15,000
	will be applicable upon all the boarders except disables)		
26	Hostel Fee Foreign Students (USD)	500	300

APPENDIX -III

Postgraduate Calender 2023-24

SERIAL NO.	Particulars/ Activity	DATE	
A	Enrollment Winter Semester 2023-2024	04-09-2023 to 12-09-2023	
1.	Commencement of Classes	11-09-2023	
2.	Mid-Term Examination	06-11-2024	
3.	Final Term Examination	08-01-2024	
4.	Termination of Semester (after completion of	19-01-2024	
	19 weeks including examinations).		
5.	Break	20-01-24 to 28-01-2024	
В	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	14-06-2024	
	19 weeks including examinations).		
5.	Break	15-06-2024 to 23-06-2023	
C	Enrollment Summer Session 2024	24-06-2023 to 28-06-2023	
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	23-08-2024	
	19 weeks including examinations).		
5.	Break	24-08-2024 to 01-09-2024	

APPENDIX -IV

List of Technologically /Academically advanced countries for evaluation of PhD Thesis

SERIAL NO.	NAME OF COUNTRY	SERIAL NO.	NAME OF COUNTRY
1.	Afghanistan1&7	25.	Janpan
2.	Australia	26.	Luxemburg
3.	Austria	27.	Malaysia
4.	Belgium	28.	Netherland
5.	Brunei2	29.	New Zealand
6.	Bulgaria	30.	Nigeria2
7	Canada	31.	Norway
8.	China3	32.	Oman7
9.	Croatia4	33.	Poland
10.	Czech republic	34.	Portugal
11.	Denmark	35.	Romania
12.	Estonia4	36.	Russia
13.	Finland	37.	Singapore
14.	France	38.	Slovak Republic4
15.	Germany	39.	Slovenia4
16.	Georgia4	40.	South Africa
17.	Greece	41.	South Korea
18.	Hong Kong	42.	Spain
19.	Hungry	43.	Sweden
20.	Iceland	44.	Switzerland
21.	India2&5	45.	Turkey
22.	Iran6&7	46.	United Kingdom
23.	Ireland	47.	United States
24.	Italy	48.	All Arab Countries2

1.Pashto

2.Arabic, Islamiyat and Islamic Studies 3.Sciences, Engineerin and Technology 4.Mathematics only 5.Brahvi, Punjabi, Saraiki, Sindhi and Urdu 6.Persian 7.Baluchi

APPENDIX -V

Violation of Rules in the Award of PhD Degree

The syndicate in its 22nd meeting held on 03.05.2019 has approved the recommendations made by academic council in its 5th meeting held on 20.03.2019, that HEC quality parameters (1-20) for award for Ph.D. degrees as conveyed by HEC vide letter. Ref-1-4(MS/PhD)QAD/HEC/2018/86/293 dated December 03, 2018.

SERIAL NO.	QUALITY PARAMETERS	NATURE VIOLATION	EXISTING DECISION/ POLICY	PROPOSED ACTION(S) IF EXISTING Policy is violated
1.	Admission Criteria	Violation of admission criteria	CGPA(3.0/4.0) or First division in MS/MPhil/Equivalent and Entry test	Admission is cancelled University to return three times the amount received from student Disciplinary action against responsible staff.
2.	Illegal Admission	Admission of students without NOC from HEC		Admission is cancelled University to return three times the amount received from student Disciplinary action against responsible staff.
3.	Course Work	Degree awarded without minimum of 18 credit hours course work	Degree will be considered Equivalent to MS/M.Phil./Equivalent degree Ref: 1-3/ AD- QA/HEC/NQAC- 20/2015/389 dated 08.07.2015	1 Degree will be con considered equivalent to MS/MPhil./Equivalent degree 2 Supervisor will be banned from supervising the new PHd Scholars for 05 years 3. Disciplinary action against department chair.
4.	Comprehensive Examination to be passed by the scholar within 2 years	Failure to clear comprehensive within first 2 years		Termination of candidature/registration of the student.
5.	Supervision of thesis by an HEC approved supervisor from the university where registered.	Supervision of thesis by Non HEC approved supervisor of the university after June 30,2019	1 .Supervisor must be from the same university. Ph.D. Faculty member from another university can be co- supervisor, if required.	Disciplinary action against Department Chair.
6.	Maximum member of students to be supervised by one supervisor	Supervision of more than 12 MS/MPhil/Equivalent and Ph.D. Students in total 5 Ph.D. students (The mix. Of MS/Mpill. And Ph.D. students should be such that the number of Ph.D. candidates does not Exceed 05)	DD-QA/HEC N/ QAC/ 2015/125 Dated February 27, 2015	Supervisor be banned from supervising the new Ph.D. Scholars for 05 years Disciplinary Action against Department Chair.
7	Revie of thesis from technologically/ academically advanced country	Thesis reviewed from one technologically/ Academically advanced country only.		 One paper be published by the student from his/her thesis research before degree attestation. Supervisor be banned supervising the new Ph.D. scholar for 05 years Disciplinary action against department chair. The officer (s) responsible for sending the thesis to foreign experts be warned.
		Thesis reviewed from more than one countries which are not included in the category of technologically/Academically advanced countries.		
		Unjustified delay in sending thesis for review by foreign experts from two technologically advanced countries.		

APPENDIX -V

SERIAL NO.	QUALITY PARAMETERS	NATURE VIOLATION	EXISTING DECISION/ POLICY	PROPOSED ACTION(S) IF EXISTING Policy is violated
8.	The thesis should be relevant to the "Title and scope of the degree	Thesis has no relevancy to the title and scope of the degree.		 Supervisor be banned from supervising the new Ph.D. scholars for 05 years. Disciplinary action against Department.
9.	One Research paper to be published in HEC recognized journal before the award of the degree.	No research paper published and degree awarded.	For science disciplines W and X categories + ISI Master list journals are accepted. For social sciences W, X, Y categories + ISI master list journal are accepted Note: Z categories journals for local regional languages only e.g. Punjabi, Pushto, Sindhi, Balochi, Brahvi, Saraiki and Persian.	 Paper to be published in the required category of HEC recognized journal before attestation of the degree. Supervisor be banned from supervising the new Ph.D. scholars for 05 years. Disciplinary action against Department Chair
		Paper published but not in required category of journal.		
		Paper published after award of Ph.D. degree.		
		Degree awarded on the basis of paper published before synopsis approval.		
		Degree awarded on the basis of the paper that has no relevancy with thesis.		
10.	Plagiarism	Degree awarded and major or minor plagiarism found in the thesis at any stage in future.	Plagiarism policy Claus 11 B (vii), 1-22 (NQAC) QAD/2017/HEC/07-364 dated March 24. 2017	Scholar and his supervisor will be penalized as per the provisions of plagiarism policy.
11.	Ph.D. Duration	Degree awarded after more than 8 years or less than 3 years. Effective for students admitted after March 18, 2016	Ref: 1-3/ AD- QA/HEC/NQAC(21)/2016/53 dated March 18, 2016	 Degree will not be accepted /attested. Supervisor be banned from supervising the new Ph.D. scholar for 05 years. Disciplinary action against Department Chair
12.	Degree Issued in Violation of the University's Own Rule/Law	Degree awarded after more than 8 years or less than 3 years. Effective for students admitted after March 18, 2016 Degree issued in violation of University PhD policy/rules in addition to HEC guidelines.		 Supervisor be banned from Supervising the new Ph.D. scholar for 05 years. Disciplinary action against Department Chair and Controller of Examination.

