



POSTGRADUATE
PROSPECTUS
2021-22



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114	DEPARTMENT OF AGRIBUSINESS& APPLIED ECONOMICS
115	DEPARTMENT OF COMPUTER SCIENCES





Disclaimer

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.

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1.	Dr. Nasir Nadeem	Convener
2.	Prof. Dr. Muhammad Ashfaq	Member
3.	Dr. Mirza Abid Mehmood	Member
4.	Mr. Meher Iftikhar Ahmad	Member
5.	Mr. Azhar Khan	Member
5.	Dr. Rao Muhammad Ikram	Secretary

Dear Students,

I warmly welcome you to MNS University of Agriculture, Multan, where you will experience an exciting and cheerful journey through your graduation program. We truly own your decision for choosing this university to materialize your dreams of an impeccable future. Let me take the opportunity to familiarize you with the zeal and dynamism of the campus community that fills me with optimism of our collective future.

Each year, our new students inspire us with fresh energy and enthusiasm. We, at MNSUAM, are committed to ensure that our academic programs are of high quality and bearing relevance to national and regional development. Your interest and commitment towards your studies help us to stay on the course. We have set our directions right not only in terms of designing our programs but also in developing our infrastructure so that to provide you with best possible facilities in terms of agricultural research, education, and services. The university has come a long way from its humble beginning to its current state as an expanded campus with fully operational teaching Labs, research farms, and well equipped Graduate Labs Block. Acknowledging the efforts for developing a Sustainable Campus, the UI GreenMetric World University Rankings has ranked MNSUAM at number 3 among the universities across Pakistan.

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. Your years at the university are very important. During your stay at the campus, you will be trained to maintain a healthy balance between your curricular, co-curricular, and extra-curricular activities. Our goal is to educate you as a whole person and we recognize that some of the important lessons you will learn will take place outside the classroom and the laboratory.

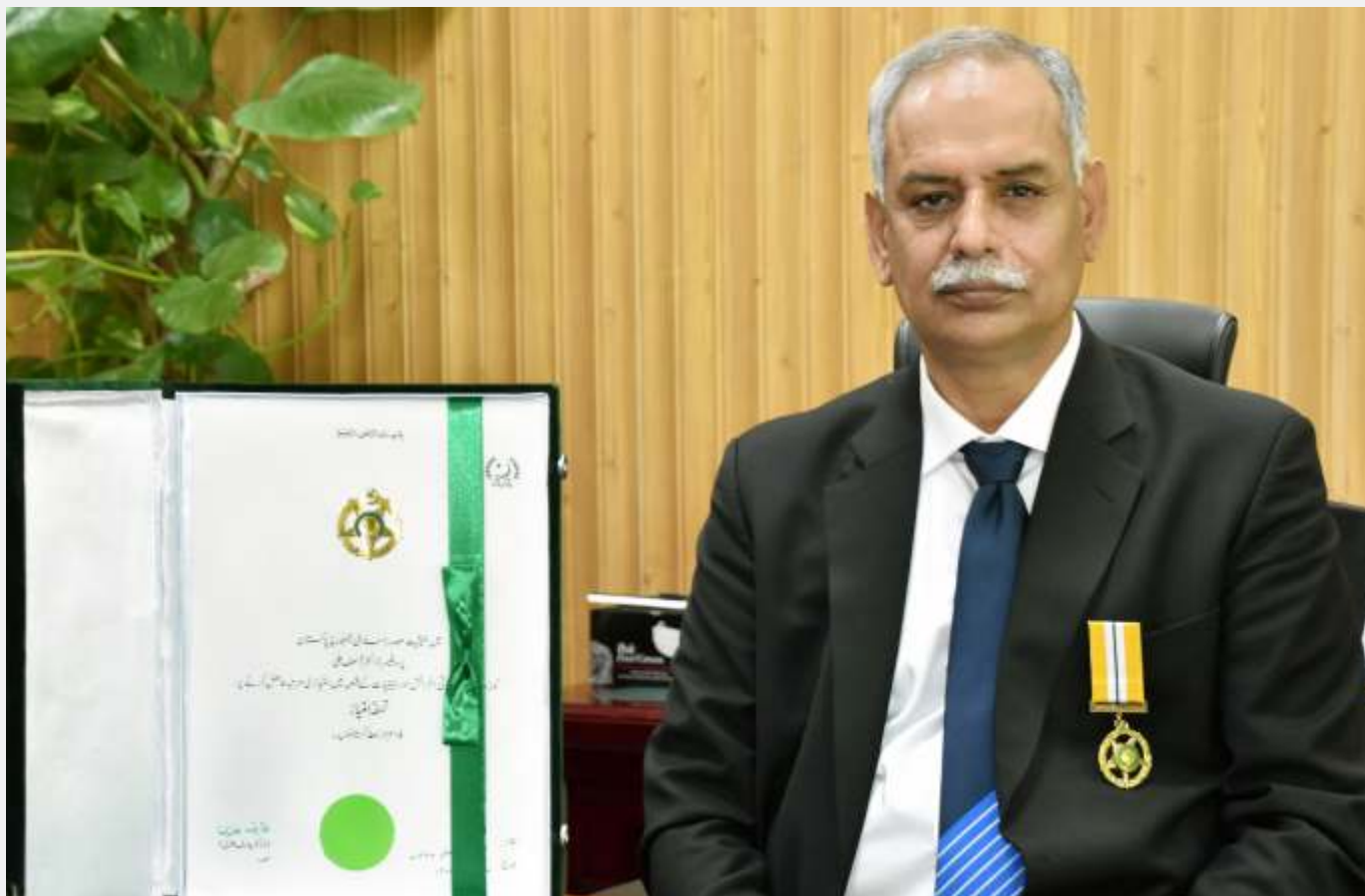
I am also delighted to share that the quality of our graduates is recognized by the employers in public and private sectors, who feel satisfied to offer jobs to our students, while our alumni are also contributing in their respective professions through exhibiting entrepreneurial skills and practical knowledge. Our Career Development Center ensures that students are provided with career guidance and resources to help them identify and work towards their career and personal goals. The center eagerly helps students with their career planning by offering a variety of services through counseling, training, contact building and networking, and internship opportunities.

During the COVID-19 crisis and the time of emergency, protection of health and safety of the campus community has been our number one priority and responsibility, whereas, aligned to this, we have put our students' education and experience at the heart of our decision making. The mechanism offered by the university has primarily aimed at reassuring the students and guiding them through a well-established online system of classes and the academic journey to the unexpected virtual road. To meet the modern pedagogical standards, we are progressing well in blended learning system and citizenship education. The faculty, students and administration have been together in these uncertain times and remained committed to fulfill their responsibilities to achieve their academic aspirations.

At the end, let me express that it is the beginning of your future. Enjoy this journey to gain a diversified experience as a student, sportsperson, researcher, and a change maker. Prepare yourself for a world where nothing stands the same. I wish you best of luck and every success in the years to come.

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

Vice Chancellor's MESSAGE



MULTAN

Multan an ancient city represents oldest civilizations in the world and a trade hub of medieval Indian Subcontinent. The history of Multan dates back to the times of Alexander the Great. Multan region is crown of Indus Valley Civilization and is being continuously inhabited for at least 5000 years. Large collection of sufi shrines dating back to 11th and 12th centuries, and a multitude of sufi mystics has earned the city its name of "City of Saints". Modern city of Multan covers an area of 3,721 square kilometers, comprising four tehsils: Multan Cantonment, Multan Sadar, Shujabad and Jalalpur Pirwala. Due to its unique geographical location, city lies in the center of Pakistan.

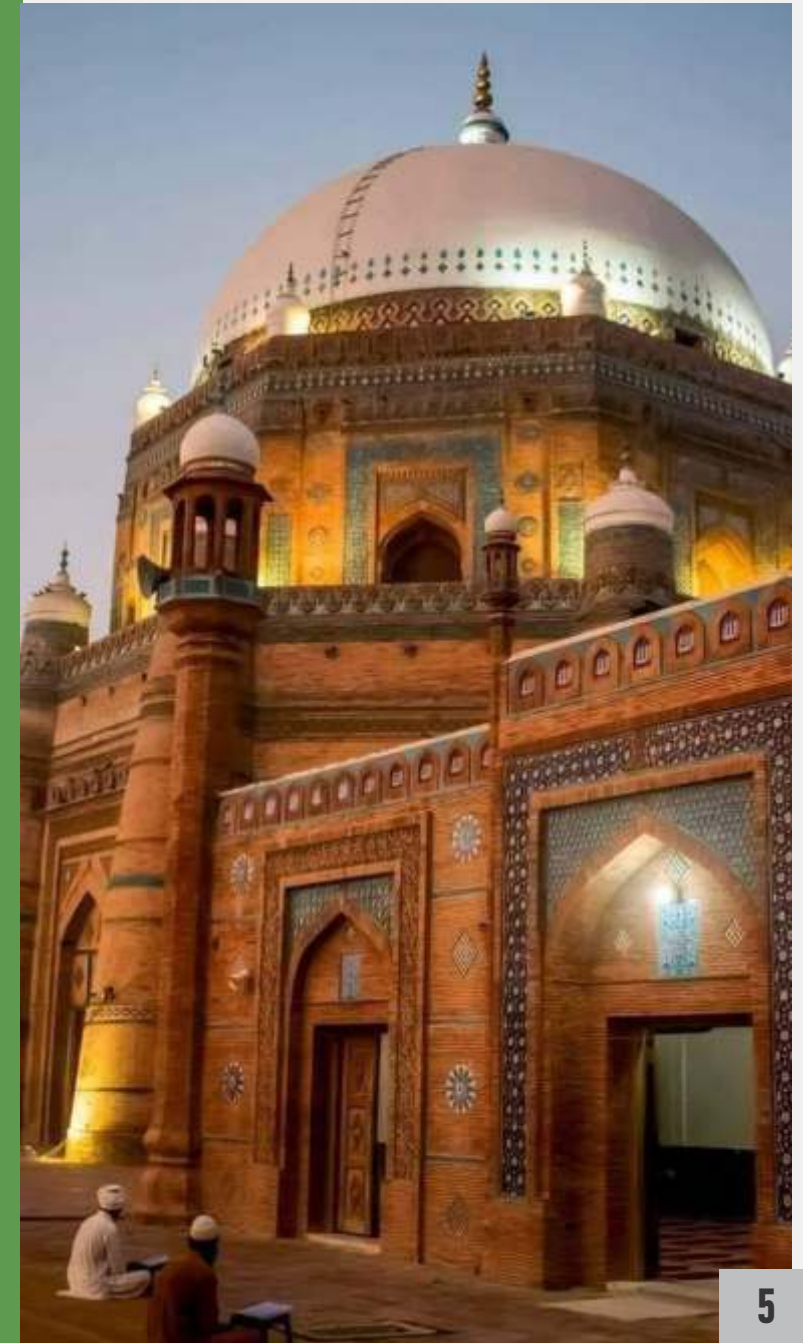
The survival of Multan for such a long period is due to its esteemed position it enjoys with the rivers. Sutlej and Chenab Rivers separate Multan from Bahawalpur and Muzaffargarh, respectively. Cultivating cotton and weaving fabric from lint was practiced widely, along with rearing animals and growing food crops. The alluvial plains are famous world over for cotton and mango production. Multan enjoys a conspicuous position due to its sweet, juicy and tasty mangoes that has fetched it another name of Mango Capital of Pakistan. The city features an arid climate with hot summers and mild winters. The city is well connected with the world through international air flights and connected to the rest of Pakistan through roads, local air flights and railways.

Moreover, the region has always supported art, poetry, music and craftsmanship. The city's handcrafts such as archery bows, clay pots with complex floral and geometrical designs, embroidered clothes and shoes, carpets and lamps made from camel skin are famous all over the world.

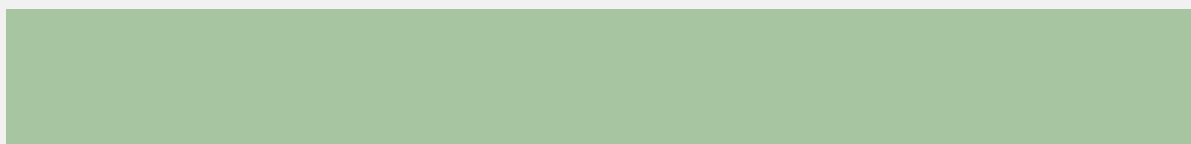
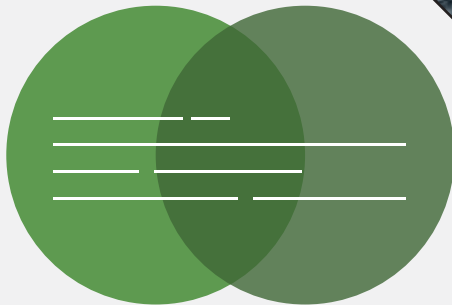
The city, with its copious cultural history has been a source of attraction for many religions and is especially known for being the central habitat for Sufism. Having the peculiarity of being the oldest civilization, the city is the abode of many tombs, shrines, temples, cathedrals and mausoleums. The famous mausoleums of Hazrat Bahauddin Zakariya and Shah Rukn-e-Alamae are the key attractions for all history enthusiasts and tourists visiting the city. Their arrogant domes add the beauty of the city and can be seen from miles away. The Mausoleum of Shamsuddin Sabzwari, Shah Yousuf Gardez, Sultan Ali Akbar and Hafiz Muhammad Jamal are other popular attractions.

Multan has developed to become one of the most influential political and economic hubs of Pakistan. The fertile land of Multan is famous for producing cotton, wheat and Mangoes which have a major contribution towards agricultural Gross Domestic Product (GDP). Livestock rearing is also an important sector of the city's agriculture system which became the cause of establishment of milk processing units, meat/poultry processing units, dairy farms, etc. Multan is the 5th most populous city of Pakistan with its population of 1.44 million. Having tremendous infrastructure and linkages to other major economic centers of the country, Multan is a hub of commercial, industrial centers with businesses producing fertilizers, poultry feed, glass, textiles and many other commodities. The city is also famous for its handicrafts and cottage industry.

With its glorious past preserved in the form of buildings and culture, Multan is rapidly evolving into a modern city with excellent road and rail networks and air linkages. Being part of the economic corridor, it is believed that the trade and development in the city will further grow in future.



MULTAN



MNS-University of Agriculture, Multan



Students Enrollment
(497)



Degree Programs
Postgraduate (26)



Faculty Strength
Ph.D (84)
M.Phil (30)



Competitive Grants
National 545 million PKR
International (117.66 million PKR)



Skill Development
Amount in Millions Rs.
(17.33)



Faculty Development
National (10)
International (05)



UI Green Metric Ranking
National (3)
International (243)



Transportation
Buses (6)
Hi-roof (2)



Student Societies/Clubs
(17)



Research Projects
(63)



MoUs / Agreements
National: (31)
International: (30)



Conferences/Seminar/webinars
National: (39)
International: (17)



Scholarships/Stipends
Amount in Millions Rs.
(46.11)



Research Publications
(during last year)
(208)



Publications
Research Journal (01)
News Bulletin (01)



Library
(>50,000 books)



Computer Labs
(05)



Accommodation Facility
Boys Hostel (01)
Girls Hostel (01)
Guest House (01)

in one
sight



The MNS University of Agriculture, Multan (MNSUAM) is an HEC recognized higher education institution established in 2012. Within a short span of time, the University has made rapid progress in terms of expanding its academic programs, students' enrolment, physical infrastructure, campus network, and hiring highly qualified and experienced academic and administrative staff. As a matter of fact, MNSUAM is considered as one of the fastest growing academic institutions of Pakistan, which is evident in the reports and comments made by officials from HEC, NAEAC, Agriculture Department, Representatives of the Government, and local and foreign experts, who visit the varsity from time to time. The main campus of the University is located at Old Shujabad Road, Multan, neighboring several different wings and formations of Punjab Agriculture Department positioned within a radius of 2-3 kilometers. These include Mango Research Institute, Central Cotton Research Institute, Cotton Research Station, Agricultural Mechanization Research Institute, Soil and Water Testing Laboratory, Directorate of Water Management, Agricultural Extension Wing, Pest Warning and Quality Control of Pesticides, Fisheries Department, Federal Seed Certification and Registration Department. All these offices and the University have combined into an "Agriculture Complex" with a common agenda of facilitating the farming community of the region.



The University's main campus is spread on an area of 180 acres at a prime location in Multan and consists of purposefully built buildings including Academic Block, Administration Block, Girls and Boys hostels, Library, Faculty and Staff residences etc. For carrying out agricultural research activities, the University has established a separate graduates block, centralized labs system, agricultural farms at the main campus as well as at Jalalpur Pirwala comprising 500 acres.

Over the years, the University has introduced several new degree programs to provide multidisciplinary education to the students with innovative approaches. Besides Bachelor's level degree programs in Agriculture, Agribusiness, Computer Science and Information Technology, the University also offers F.Sc. Pre-Agriculture, and M.Sc. and Ph.D in various disciplines of Agricultural Sciences. The University has also started B.Sc. (Hons.) Human Nutrition and Dietetics, B.Sc. (Hons.) Poultry Science, B.Sc. Agro-industrial Engineering Technology, whereas 6 new

ABOUT

MNS-University of Agriculture, Multan

undergraduate degree programs and 5 MS/M.Sc./PhD programs are being initiated this year.

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

The University regularly conducts national and international events including conferences, seminars, workshops, and festivals. Some activities have now become the trademark of this University such as Sino-Pak International Cotton Conference, Spring Festival, Kisan Mela, Fish Mela, Annual Cotton Seminar and Mango Festival. The University has the honor of among the top 5 teams in the national Microsoft Imagine Cup during the last two consecutive years. Acknowledging the efforts for developing a Sustainable Campus, the UI GreenMetric World University Rankings 2020 has ranked MNSUAM at number 3 among the universities across Pakistan. With a vision to highlight a positive image of our country onto the canvas of the world and lure international markets for bilateral trade, investment and business, the University is actively playing its part to explore new horizons for economic betterment of Pakistan.







UNIVERSITY ADMINISTRATION

UNIVERSITY ADMINISTRATION

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

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DIRECTORATE OF GRADUATE STUDIES

Directorate of Graduate Studies

Mission

The mission of Directorate of Graduate Studies is to streamline admission and research process of postgraduate students and provide all possible guidelines regarding course work

GS-10, synopsis and thesis preparation and submission. Moreover, to facilitate the students timely collection, approval and processing of their documents.

Vision

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

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.A., M.Sc., M. Phil./MS/M.Sc. (Hons.) and Ph.D. programs.

Collection of course work and enrolment forms (GS/10) of postgraduate students in each semester.

Scrutiny of the synopsis and thesis, course work programme and supervisory

committees of M.A., M.Sc., M.Phil./MS/M.Sc. (Hons.) and Ph.D. students and arranging their approval by 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.

Achievements So Far

Directorate of Graduate Studies is determined to exploit its potential for the betterment of the University as well as community. During 201-20, this office had conducted two 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.) /Mphil/MS students
- Amendment in postgraduate regulation 11(ii) ,9(B),58 and 44

regarding deficiency courses, supervisory committee, teaching assistantship and research paper for the award of M.Sc Hons. MS degree.

- Approval for initiation and curriculum/ scheme of studies of MS fisheries and aquacultures
- Approval for initiation and curriculum/ scheme of studies of MS public health (mph)
- Approval of synopses titles and supervisory committees
- Approval in the revision of eligibility criteria of M.Sc.(Hons.) Agriculture Economics and MS (Management-Specialization in Agribusiness).

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 2021-22.



Dr. Nasir Nadeem

Director
Graduate Studies



Dr. Rao Muhammad Ikram

Asst. Director
Graduate Studies

Relevant Qualification for Admission

Degree/ Discipline	Program	Duration (Semester)		Admission Criteria	Eligibility
		Minimum	Maximum		
M.Sc(Hons) Agronomy, Agriculture Economics, Biotechnology, Entomology, Food Science and Technology, Horticulture, Plant Breeding and Genetics, Plant Pathology, Soil Science	Regular	4	6	<p>Screening test (50%), B.Sc (Hons) Agri. With major in relevant field of study from many HEC recognized university/DAIs (Deficiency course will be given where necessary)</p> <p><u>For Agricultural Economics*</u></p> <p>1.M.Sc.(Hons.) Agriculture Economics</p> <p>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</p> <p>A minimum CGPA of 2.50 on a scale of 4.0 in field of BBA Agribusiness, <i>BS Agribusiness and Marketing</i></p> <p>c. At least 50% marks in entry test</p>	<p>(a) CGPA = 2.5/4.00</p> <p>(b) At least 2nd Division</p> <p>(c) Entry Test</p>
M.Sc (Hons) Seed Science and Technology	Regular	4	6	<p>Screening test (50%) with major in agronomy, entomology, seed science and technology, horticulture, plant breeding and genetics, soil science, biotechnology, plant pathology from HEC recognized university/DAIs.</p> <p>(Deficiency course will be given where necessary)</p>	<p>(a) CGPA = 2.5/4.00</p> <p>(b) At least 2nd Division</p> <p>(c) Entry test</p>
M.Sc (Hons) Climate change	Regular	4	6	<p>Screening test (50%)</p> <p>Sixteen years of education in following disciplines:</p> <p>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).</p>	<p>(a) CGPA = 2.5/4.00</p> <p>(b) At least 2nd Division (45% Marks)</p> <p>Entry test</p>

Relevant Qualification for Admission

Degree/ Discipline	Program	Duration (Semester)		Admission Criteria	Eligibility
		Minimum	Maximum		
Ms. Computer Science	Regular	4	6	<p>1. 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).</p> <p>2. 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</p>	<p>(a) CGPA = 2.5/4.00</p> <p>(b) First division where GPA system not implemented.</p> <p>Entry Test.</p>
MS (Management- Agribusiness Specialization)	Regular	4	6	<p>a. BBA (Agribusiness)/B.Sc. (Hons.) Agri. (Agriculture Economics / Agriculture and Resource Economics, Marketing and Agribusiness) (four years degree programs).</p> <p>b. MBA (Agri. Business) (two years degree program)</p> <p>c. M.Sc. (Economics) (with deficiency courses of one semester as decided by BoS)</p> <p>d. B.Sc. (Hons.) Agri. (all other majors)/ B.Sc. (Hons.) A.H./DVM/ B. Sc. (Hons.) Food Sciences/ B. Sc. (Hons.) Agri. Engineering/B.Sc. (Hons.) (with deficiency courses of one semester to be decided by BoS of the Department).</p> <p>e. BS Agribusiness and Marketing.</p> <p>f. A minimum CGPA of 2.5 on a scale of 4.0</p> <p>g. At least 50% marks in entry test</p>	<p>(a) CGPA = 2.5/4.00</p> <p>(b) At least 2nd Division</p> <p>(c) Entry Test</p>

Relevant Qualification for Admission

Degree/ Discipline	Program	Duration (Semester)		Admission Criteria	Eligibility
		Minimum	Maximum		
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
Master of Science (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 with 2.5/4.00 CGPA or 2nd Division	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
Master of Science (MS) Fisheries and 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 or *equivalent degree with minimum CGPA 2.5/4.00. or 2nd Division * Equivalence status will be determined by the department	CGPA = 2.5/4.00 At least 2 nd Division Entry Test
Master of Science (MS) Public Health	Regular	4	6	DVM, BSc (Hons)/ BS in Animal Sciences/Human Nutrition and Dietetics/ Food Technology/ Microbiology/Biochemistry/ Zoology or equivalent degree with 2.5/4.00 CGPA • MBBS/BDS (16 years) BS/B.Sc. (16-years) in Nursing, Pharm-D or *equivalent (Registered with Pharmacy Council) • B.Sc. Paramedic (4-Yrs), BS Physiotherapy or *equivalent. • At least Second Division/CGPA not less than 2.50 / 4.00. * Equivalence status will be determined by the department	CGPA = 2.5/4.00 At least 2 nd Division Entry Test

Relevant Qualification for Admission

Degree/ Discipline	Program	Duration (Semester)		Admission Criteria	Eligibility
		Minimum	Maximum		
PhD (Agronomy, Biotechnology, Entomology, Food Science and Technology, Horticulture, Plant Breeding and Genetics, Plant Pathology, Seed Science and Technology, Soil Science)	Regular	6	10	University Subject Based Screening Test (70%), GAT Subject (60%) M.Sc.(Hons)/M.Phil. in relevant subject from HEC DIAs, Deficiency courses	(a) CGPA not less than 3.00/4.00 (b) At least 1 st division



POSTGRADUATE STATUES

POSTGRADUATE STATUTES

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

I. STATUTES

Duration and Requirements of Degree Program

1. (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.

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Explanation:

- For the Department of Computer Science, Information Technology and Agribusiness the Major and Minor courses shall be read as Core and Elective courses respectively.*
- 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 and Faculty of Veterinary and Animal 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 and Faculty of Veterinary and Animal 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 with 50% marks.
 - (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

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

6.
 - (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

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and notified by the Director Graduate Studies.

- (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.
- 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 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 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.
 - (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 along with 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 dates.*
- 8.
- (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.
- 9.
- (i)
 - (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

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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. Special member(s) may be added in the supervisory committee. Any faculty member from MNS UAM may act as Supervisor / Co-Supervisor/ Member of the supervisory committee for the student of other HEC recognized universities / institutes with prior approval from Director Graduate Studies. Such students to be Supervised / Co-Supervised by MNS UAM faculty members shall be counted towards there maximum limit for under supervision student in accordance with HEC policy. *

- (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 courses(s) during first academic year (Two regular semesters + following summer). 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 alongwith 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 stand 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. However, the deficiency courses required as a pre-requisite before enrollment of any advance course must be passed before the enrollment of that particular advance 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.

* Approval by Syndicate in its 26th meeting held on 11-07-2020

** Approval by Syndicate in its 31st meeting held on 10-10-2021

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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.*

(ii) 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

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.

* BASR in its 5th meeting held on 15-01-2019 has deligated its power to relax enrolment upto 3 redits hourse as following;
(a) Director Graduate (b) Vice Chancellor may relax two extra credit hours.

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21. (i) 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 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
A	4	80-100	Excellent
B	3	65-79	Good
C	2	50-64	Satisfactory
I	-	-	In-Progress
F	0	Below 50	Fail

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

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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 Research Board.
- (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 the student will be declared/assumed fail in the thesis examination and shall be notified by the office of the Controller of Examinations. Under unavoidable circumstances the thesis examination may be conducted through video conference arrangement if a student is at abroad. 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.
35.
 - 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 semi-final 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.

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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.

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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:

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- 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.
- c) 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

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 Sbject test.*

- (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 authority designated 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.

* Approval by Syndicate in its 22nd meeting held on 03-05-2019

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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 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.

6. (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) 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 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 along with fixing the dates for different departments by

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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 dates.*

8. (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.
9. (i) 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. Special member(s) may be added in the supervisory committee. Any faculty member from MNS UAM may act as Supervisor / Co-Supervisor/ Member of the supervisory committee for the student of other HEC recognized universities / institutes with prior approval from Director Graduate Studies. Such students to be Supervised / Co-Supervised by MNS UAM faculty members shall be counted towards there maximum limit for under supervision student in accordance with HEC policy.*
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.

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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 the 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 courses(s) during first academic year (Two regular semesters + following summer). 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 alongwith 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 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

12. All post-graduate courses will be designated as 700 numbers preceded by the suitable alphabets representing the name of the respective department.
13. (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 cases.**
(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

* Approval by Syndicate in its 26th meeting held on 11-07-2020

** BASR in its 5th meeting held on 15-01-2019 has deligated its power to relax enrolment upto 3 credits house as following;

(a) Director Graduate (b) Vice Chancellor may relax two extra credit hours.

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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 the Chairperson and recommended by the Dean, names of the students 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.
- (vi) 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 semester shall be held on a date and time and place to be notified by the teacher in advance.
19. (i) To pass deficiency course(s) a student is required to obtain at least "B" grade.
(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. (i) 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 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.
(iii) The following weightage shall be given to the examinations.
- | | | |
|----|--------------------------|--------|
| a) | Mid-semester examination | : 30% |
| b) | Home assignments/quizzes | : 10% |
| c) | Final examination | : 60% |
| | Total | : 100% |
- (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.
(i) 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 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

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

Grade	Value	Marks(%)	Remarks
A	4	80-100	Excellent
B	3	65-79	Good
C	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

26. A student admitted to the course shall take a comprehensive examination within two semesters after he/she has successfully completed the approved course work.

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.

27. 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 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.

29. 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 two semesters from the date of the declaration of the results of the examinations.

30. A student who has passed the comprehensive examination shall be deemed to have become a candidate for admission to PhD degree.

Comprehensive Examination - Written Part

31. 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 each regular semester and at least two weeks before the commencement of the examination.

32. Examiners for the written comprehensive examination shall be appointed by the Vice Chancellor, processed through Controller of Examinations office from a panel of 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).

33. 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.

34. (i) To pass the written examination a student must secure 65% marks in each paper separately.

(ii) 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

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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 two external experts from the list of HEC approved academically advanced countries, he/she will have to defend thesis, at University level. The thesis shall be evaluated by the supervisory committee, two external examiner from other universities/ research institute and one internal examiner and if found acceptable, the final submission may be allowed".
- Note: For the appointment of two external examiners, a panel of six examiners per student recommended by the respective Board of Studies will be submitted to Board of Advance Studies and Research for approval of two names from the proposal panel for theses evaluation. The external examiner shall be given maximum six month's time (on analogy of M.Sc. Thesis) to review the contents of the thesis critically. The concerned supervisor will be the internal examiner.
- (iv) The thesis should be relevant to the title and scope of the degree.
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 devised by the each department, and approved by the Graduate Studies and Research Board/ Board of Advanced Studies and Research and shall be submitted to the office of the Director Graduate Studies.
- (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

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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,

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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 papers published online in impact Factor journals and carrying DOI will also be redeemable for the payment of financial incentive. The name of only active members of supervisory committee will be added in the publication. The name of co-supervisor/helping scientist from inland/ abroad can be included in the research papers.

- Note:**
- (i) The expenditure to be incurred on research articles submitted to W category journals will be borne by the University.
 - (ii) Two copies of English and Urdu articles (soft and hard) to be published in the National Press by PRP Office.
 - (iii) Final approved three copies of hardbound PhD thesis along with two CDs, one each for HEC and University Library.
 - (iv) For Social Sciences disciplines W, X and Y categories + ISI Master list Journal 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

- (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 students.*
 - (ii) Non HEC approved faculty/supervisor can not supervise PhD students.*
 - (iii) Supervisor of PhD student must be from the same university.*
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.

* Approved by Syndicate in its meeting held on 03-05-2019

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58. Teaching assistantship for at least one semester shall be mandatory requirement for PhD students to earn PhD degree. Teacher concerned from the r e s p e c t i v e department shall submit the completion report to the Director Graduate Studies. 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	1 Degree will be considered equivalent to MS/MPhil./Equivalent degree 2 Supervisor will be banned from supervising the new Ph.D. Scholars for 05 years 3. Disciplinary action against department chair.
4	Comprehensive Examination to be passed by the scholar within 2 years¹¹	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 postponed for further deliberation by Syndicate in its 22nd meeting held on 03-05-2019

¹ Approval by Syndicate in its 31st meeting held on 10-10-2021

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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	<p>Thesis reviewed from one technologically/ Academically advanced country only.</p> <hr/> <p>Thesis reviewed from more than one countries which are not included in the category of technologically/Academically advanced countries.</p> <hr/> <p>Unjustified delay in sending thesis for review by foreign experts from two technologically advanced countries.</p>		<ul style="list-style-type: none"> • .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. <hr/> <ul style="list-style-type: none"> • 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. • Disciplinary action against Department Chair. <hr/> <ul style="list-style-type: none"> • 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.		<ul style="list-style-type: none"> • 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.	<p>No research paper published and degree awarded.</p> <hr/> <p>Paper published but not in HEC recognized journal</p> <hr/> <p>Paper published but not in required category of journal.</p>	<p>For science disciplines W and X categories + ISI Master list journals are accepted.</p> <p>For social sciences W, X, Y categories + ISI master list journal are accepted</p> <p>Note: Z categories journals for local regional languages only e.g. Punjabi, Pushto, Sindhi, Balochi, Brahvi, Saraiki and Persian..</p>	<ul style="list-style-type: none"> • 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

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		<p>Paper published after award of Ph.D. degree.</p> <hr/> <p>Degree awarded on the basis of paper published before synopsis approval.</p> <hr/> <p>Degree awarded on the basis of the paper that has no relevancy with thesis.</p>		
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	<ul style="list-style-type: none"> • 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 issued in violation of University PhD policy/rules in addition to HEC guidelines.		<ul style="list-style-type: none"> • Supervisor be banned from Supervising the new Ph.D. scholar for 05 years. • Disciplinary action against Department Chair and Controller of Examination.

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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.
5. 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 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.
7. 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 before the scheduled date.
8. 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 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.
10. Course mentioned in statute four shall not be counted towards minor field as required under statute 4(ii).
11. When two or more brothers/sisters are studying, younger can be granted half tuition fee concession by the Dean concerned.
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.
15. "Deficiency Course" means a course in which a student has been adjudged deficient by a competent body of the university.
16. "Non-Credit Course" means a course of study, successful completion of which would not be a requirement for the degree.
17. Colour of Thesis Binding
M.Sc. (Hons.)/M Phil/MS (Blue)
PhD (Maroon)

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18. 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.

19. Applications will be invited through National press for admission to postgraduate courses in the beginning of the academic session i.e.

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.

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.

Guidelines for Supervisors

1. For the supervisor, the practice of supervision should involve:

- (i) discussing with the supervisee the mutual expectations on which the supervision process can be built;
- (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;
- (iv) discussing method, approach and later the results of the project;
- (v) assisting the candidate in finding relevant literature or research materials, additional research funding (if necessary) or gaining access to the field;
- (vi) supporting the supervisee in his/her integration into a local PhD discussion group, in which the supervisee can presents his/her research;
- (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;

- i. guide the supervisee on the issues mentioned in section 1 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.
- iv. 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 1-2.

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

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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





**INSTITUTE OF
PLANT BREEDING &
BIOTECHNOLOGY**

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

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

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



Mission

Our mission is to achieve excellence in academia, research and extension in agricultural sector.



Vision

The faculty of agriculture and environmental sciences is striving to be a dynamic center of excellence in research, innovation and creativity dedicated to teaching, extension, entrepreneurship and collaboration with the national and international partners, ultimately benefitting the farming community of Pakistan.

INSTITUTE OF PLANT BREEDING AND BIOTECHNOLOGY

The Institute of Plant Breeding and Biotechnology at MNS-UAM offers postgraduate degree programs in the subjects of Plant Breeding and Genetics, Seed Science and Technology, and Biotechnology. The institute has qualified faculty actively involved in developing latest curriculum and promoting effective research and development activities in the University. The institute was established with the aim of developing improved crop varieties and improving seed systems through the integration of conventional plant breeding techniques with modern biotechnological tools. The institute is running number of research projects funded

by national and international funding agencies including Agricultural Development Program (ADP), Govt. of the Punjab, Punjab Agricultural Research Board (PARB), Higher Education Commission (HEC), Agricultural Linkages Program (ALP), DFID, ACIAR and USAID. The institute has also initiated outreach program for establishing linkages between the farming community, industry and the researchers to solve the problems of the stakeholders. The institute arranges seminars, conferences and workshops to discuss burning issues of agriculture and also to bring new research ideas for the young faculty and post graduate students.



Mission

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.



INSTITUTE OF PLANT PROTECTION

INSTITUTE OF PLANT PROTECTION (IP2)

Due to the COVID-19 pandemic, all the educational institutions in the country have been shifted to online learning tools. Keeping in view the need of time, IPP has also started online classes using learning management system (LMS) without compromising the standards of teaching.

In future, the institute will offer various courses which will be taught online completely and hybrid courses with blended learning along with face-face teaching to meet the standards of international institutions.

The faculty from the institute is also

leading the University in organizing seminars about COVID-19 pandemic and creating awareness among the society especially farming communities through literature and other possible means. Moreover, the institute is also actively engaged in developing a biological control

of locust which poses a threat to the cultivation of various crops in Southern Punjab. Similarly, the farming community of the region also getting benefits from the institute in the form of diagnostic facilities of weeds and diseases along with the best possible solution for their management.



Mission



Vision

Developing an integrated system of research and outreach for plant protection.

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:

1. Chair Entomology

It comprises the former Department of Entomology. The faculty members of this chair are highly qualified and take pride in their teaching responsibilities. Majority of the faculty members are PhD having foreign teaching / research experience. The Department strength is teaching, research and outreach activities. The faculty devotion for research is apparent from the publication of over 270 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. Chair Plant Pathology

The faculty at this chair is 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 induced 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 125 research articles and book chapters in well-reputed national and international journals.



DEPARTMENT OF AGRONOMY

DEPARTMENT OF AGRONOMY

The Department of Agronomy is striving hard to earn repute of excellence in agronomic education with focus on problem-oriented research related to crop production and soil management. A dedicated and highly qualified faculty, having hands on experience in agronomic teaching and research at national and

international institutes, makes it one of the most accomplished departments in the University. So far, the Department of Agronomy at MNS-University of Agriculture, Multan has published 150 international papers in referred journals, won eight research projects and submitted several others for competitive

grants. The Department also organizes seminars and workshops on contemporary issues of agriculture. Advisory services to farmers are also being provided. The department has all the basic facilities like lecture rooms, well-equipped research laboratories, text books and reference materials for

undergraduate and postgraduate degree programs. The students are blessed with diverse learning facilities ranging from lectures to interactive tutorials, brain storming sessions and field workshops involving advance audio visual aids.



Mission

- 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.



Vision

To provide leadership in agronomic education with focus on problem oriented research related to crop production and soil management





**DEPARTMENT OF
FOOD SCIENCE &
TECHNOLOGY**

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

Keeping in view the current scenario of the world and our country's food safety and food security, the Department is aimed to produce well trained human resource to cope emerging needs of the community and food industry as well. 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 burgeoning population and fastest growing food industry in the

country. There has been a significant increase in the establishment of food industry during the last two decades and consequently the demand for Food Technology graduates has increased tremendously at national and international level. South Punjab is the hub for agricultural production and a lot of food industries are working here to enhance the quality of food products. Hence, there is a great demand of Food Technologists to cope needs of the area in terms of

employment in industry and academia. The present faculty is practically involved in the capacity building of the students through effective teaching and training programs. Concerning the most important issues including malnutrition and unavailability of safe food of South Punjab community, these issues have been taken up as challenge and Department of FST shared significant contribution in promotion of food preservation and hygienic practices. 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. The students of Food Science and Technology involved in different research institutes and food industries to meet the challenges of corporate sector through their practical knowledge.



Mission

To equip and prepare young minds for meeting challenges of global food safety and food security situations.



Vision

Vision to enhance the learning capabilities of the graduates through advanced techniques, practical knowledge and internship training programs.





Department of Horticulture

DEPARTMENT OF HORTICULTURE

Department comprises of young, energetic and motivated faculty, staff as well as research team having diverse experience and strong commitment towards teaching, research and outreach. The departmental faculty consists of a professor, five assistant professors and a lecturer; all having rich teaching experience together with numerous publications in national and international peer review journals and conferences proceedings.

The department offers degree programs in BSc (Hons), MSc (Hons) and PhD with specialization in horticulture subject. Curriculum of these degree programs is reviewed and revised keeping in view needs of horticultural community and recent developments in horticulture industry of Pakistan and the world through statutory bodies. The department was established during 2015; and upto 2019, sixty two (62) undergraduate and three (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

under progress including, Supply chain management of minor fruits like Ber, Mulberry, Grapes, Phalsa, Litchi, Pomegranate and Jaman as targeted crops and is funded by HEC; Postharvest management of strawberry funded by Pakistan Agriculture Research Board (PARB-CAS); Vegetable grafting and Awareness regarding insect repellent plants funded by HEC; while projects worth Rs. 1.5 million have been completed.

Considering geographical location of MNS-UAM in main mango growing area of Pakistan the department emphasizes on creating awareness, branding and networking in mango production, supply and value chains. In this regard, the department has a pride to organize an annual mango festival in Multan to provide a platform to mango stakeholders including growers, exporters, processors, nursery owners, fertilizer companies/dealers, pesticide companies, banks and several other organizations/firms etc. These opportunities provide them a platform to display their products on stalls that attract the national and international businessmen.

In addition, the department also arranges

regular seminar and workshops to disseminate information related to international compliances on mango quality and safety through consultancies to facilitate and trains the growers to grow export quality mangoes. Recent organization of training course on Ultra-High Density Plantations of Mango Orchard is a new international activity introduced by the department to create awareness in mango industry and develop technical capacity to get higher mango yields through small trees system (STS). Dr. Steven A. Oosthuysen 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, cucumber grown under hydroponic system.

To develop social skills and integration in students, department arranges study

tours including visits to progressive farms, markets and botanical gardens. These activities help students to share their interest and expand their network for finding carrier opportunities after graduation. Moreover department arranges annual cultural functions to build 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 well-rounded 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.



**Department of
Soil & Environmental
Sciences**

DEPARTMENT OF SOIL AND ENVIRONMENTAL SCIENCES

Healthy soils and clean environment are indispensable for all life forms on earth due to their tremendous role in food security and human health. Therefore, MNS University of Agriculture Multan established its Department of Soil and Environmental Sciences in year 2012. The department houses distinguished faculty with vast teaching and research experience in various domains such as Saline Agriculture, Soil Microbiology and Biochemistry, Soil Fertility and Plant Nutrition, Soil and Environmental

Chemistry, Soil Physics, and Climate Change. The departmental labs are equipped with state of the art equipment for research. Therefore, two M.Sc. (Hons.) programs are offered in the subject of "Soil Science" and "Climate Change". The Climate Change degree program is a joint venture with different departments of the university. However, PhD is offered only in the subject of "Soil Science". Faculty comprises HEC approved supervisors which are competent and open minded to make

collaborations, take initiatives, establish industry academia linkages and perform outreach activities.

Postgraduate programs of the department prepare the students to address agricultural and environmental challenges keeping in view the local and global perspectives. Research in the department drives innovation and new technologies for problem solving to pave the way for knowledge economy. After graduation, the trained students serve in Public and Private sectors such as Universities,

Research Institutes, Soil and Water Testing Laboratories, Fertilizer and Pesticide Companies and leading NGOs.

Currently, 10 national and international funded research projects are going on in the department. Moreover, gatherings of scientific community in the form of seminars, conferences and workshops are regularly held to provoke the scientific thoughts in students and to establish linkages with potential stakeholders



Mission

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.



Vision

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





Faculty of Social Sciences and Humanities

FACULTY OF SOCIAL SCIENCES AND HUMANITIES

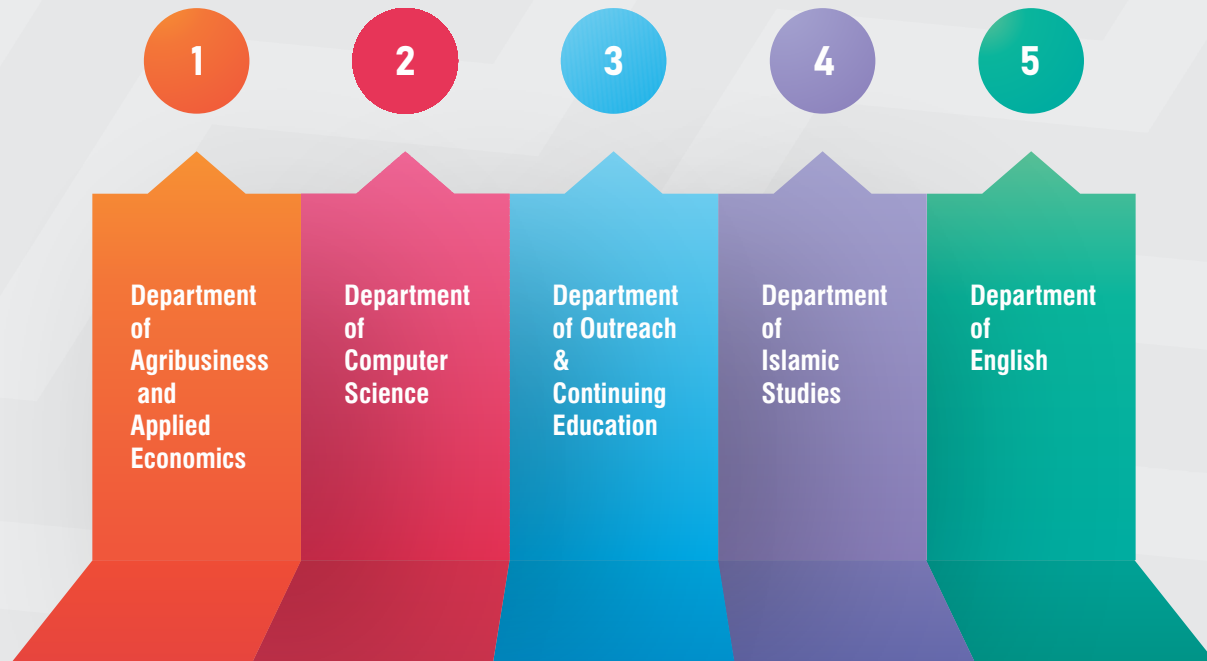
The Faculty of Social Sciences and Humanities is comprised of Department of Agribusiness and Applied Economics, Department of English, Department of Islamic Studies and Department of Computer Sciences. The faculty has total

strength of 19 faculty members which include 7 PhDs and 12 Non-PhD faculty members. Academic staff of faculty has academic training from leading Universities of China, Germany and Pakistan. The faculty members have

several research projects and published research in renowned journals. At present, faculty offers three post graduate degree programs namely M.Sc.(Hons.) Agri. economics and MS Computer Science and MS(Management-Agribusiness

Specialization). Currently 700 students are enrolled in different postgraduate and undergraduate degree programs.

Faculty of Social Sciences & Humanities Consists of Five Departments:



The faculty with its constituent organs has been exploring socio-economic issues of national/international importance to assist policy makers and development practitioners in formulation pro-poor policies for sustainable development. Faculty of Social Sciences and Humanities

is currently offering degree programs at undergraduate level in the disciplines of Agricultural and Resource Economics, Agribusiness, Computer Sciences and Information Technology. The Department of Continuing Education offers short courses of different durations ranging

from two weeks to six months for capacity building and skill development. Keeping in view, the future requirements and challenges of 21st century, the Faculty has upgraded and revised its institutional programs both at undergraduate and postgraduate levels. The Faculty is also

planning to initiate postgraduate degrees in Agricultural Economics, Agribusiness, computer science and Agricultural Extension at undergraduate level considering market needs and public demand.



**Department of
Agribusiness and
Applied Economics**

DEPARTMENT OF AGRIBUSINESS AND APPLIED ECONOMICS

Population of Pakistan is increasing at an alarming rate and its majority depends directly or indirectly on income streams generated by the agriculture sector. Therefore, agriculture development is inevitable for improving quality of life,

alleviation of poverty and ensuring food security and overall development in the rural areas. The Department of Agribusiness and Applied Economics is well aware about the changing scenario of agricultural sector and abreasting itself to

emerging challenges of rural economy of Pakistan. The aim of the department is to promote knowledge and to educate scientists specialized in research and in tackling problems connected to the economics, social and environmental

dimensions for viable rural development. Department offers postgraduate program in Agricultural Economics.

Vision

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

Mission

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.





DEPARTMENT OF COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

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

Objectives

The department will enable the students to:

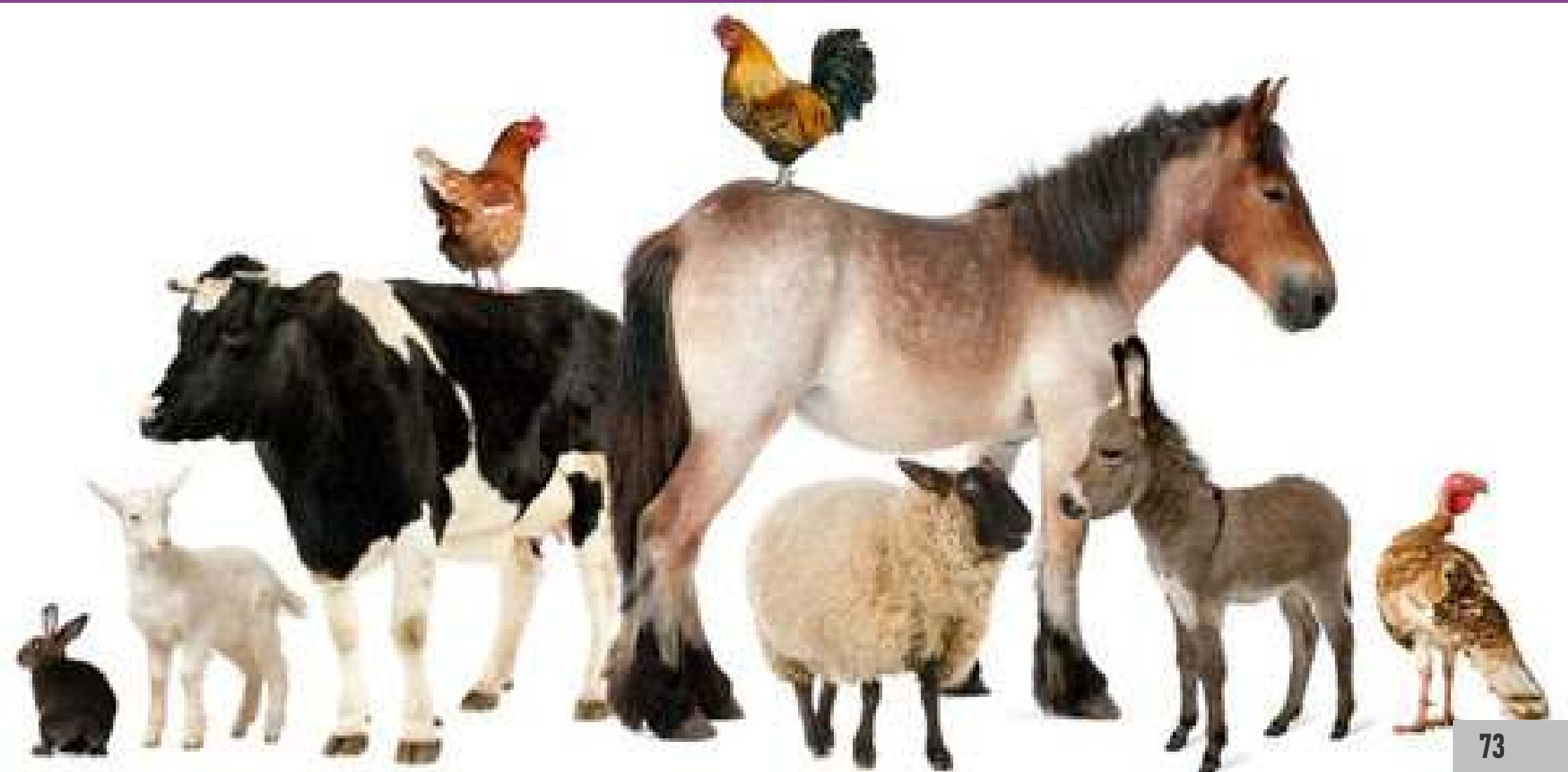
- Enlighten with innovative theoretical and practical computer science knowledge.
- Substantial exposure to modern themes in Software Technology, Computer Networks, Computer Architecture, Computer Vision, Artificial Intelligence, Machine learning, Data Sciences.
- Extend research in computer science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



Faculty of Veterinary and Animal Sciences (FVAS)



DEPARTMENT OF VETERINARY AND ANIMAL SCIENCES (FVAS)

Faculty of Veterinary and Animal Sciences (FVAS), MNS University of Agriculture, Multan, is constituted recently and is struggling to earn repute of excellence with intellect and future foresight. University Syndicate has approved the establishment of following eight (08) departments in the Faculty.

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

Postgraduate Programs Offered

Following postgraduate degree programs are being offered in the Faculty of Veterinary and Animal Sciences

1. MS Public Health
2. MS Poultry Science
3. MS Fisheries



**Postgraduate
Degree
Programs
Offered**

Schedule-I

M.Sc. (Hons.)

Agronomy, Entomology, Food Science and Technology, Horticulture, Plant Breeding and Genetics, and Soil Science, Plant Pathology, Seed Science and Technology, Biotechnology, Climate Change and Postharvest Management Technology



Postgraduate
Degree
Programs
Offered

Faculty of Social Sciences and Humanities

► **M.Sc. (Hons.)**
Agricultural Economics

► **MS**
Computer Sciences
Management- Agribusiness
Specialization

Faculty of Veterinary and Animal Sciences

► **MS**
Poultry Science
Fisheries and Aquaculture
Public Health

Schedule-II

Faculty of Agriculture and
Environmental Sciences

► **Ph.D**

Agronomy, Biotechnology, Entomology, Food
Science and Technology, Horticulture, Plant
Breeding and Genetics, Plant Pathology, Seed
Science and Technology, Soil Science

List of Courses for Postgraduate Degree Programs

Faculty of Agriculture and Environmental Sciences

AGRONOMY

COURSE CODE	COURSE TITLE	CREDIT HOURS
AGRON-701	ADVANCED AGRONOMY	3(2-1)
AGRON-702	APPLIED CROP ECOLOGY	3(3-0)
AGRON-703	AGRO- METEOROLOGY	3(3-0)
AGRON-704	ALLELOPATHY IN CROP PRODUCTION	3(2-1)
AGRON-705	CROP MODELING	3(2-1)
AGRON-706	CROP NUTRITION MANAGEMENT	3(2-1)
AGRON-707	FARMING AND CROPPING SYSTEM	3(3-0)
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(3-0)
AGRON-715	CLIMATE CHANGE AND AGRICULTURE	3(3-0)
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)

List of Courses for Postgraduate Degree Programs

Faculty of Agriculture and Environmental Sciences

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	TECHNOLOGY OF EDIBLE FAT AND OIL	3(2-1)
FST-710	ADVANCES IN PROCESSED MEAT TECHNOLOGY	3(2-1)
FST-711	FOOD QUALITY ASSURANCE MANAGEMENT	3(3-0)
FST-714	FOOD INDUSTRIAL WASTE MANAGEMENT	3(2-1)
FST-715	ADVANCES IN BEVERAGE TECHNOLOGY	3(2-1)
FST-716	POST HARVEST MANAGEMENT	3(3-0)
FST-717	FOOD PACKAGING	3(2-1)
FST-718	RECENT ADVANCES IN FOOD SCIENCE AND TECHNOLOGY	3(3-0)
FST-719	SPECIAL PROBLEM	1(1-0)
FST-720	SEMINAR	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	VECTOR TRANSMISSION OF PLANT DISEASES	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)

List of Courses for Postgraduate Degree Programs

Faculty of Agriculture and Environmental Sciences

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	CREDIT HOURS
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)
HORT-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)



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)

List of Courses for Postgraduate Degree Programs

Faculty of Veterinary and Animal Sciences

MS (Fisheries and Aquaculture)

MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
FSAQ-701	Advanced Fish Biology	2 (1-1)
FSAQ-702	Aquatic Ecology & Management	3 (2-1)
FSAQ-703	Principles of Aquaculture	2 (1-1)
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-708	Aquaculture Nutrition	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 Economics and Marketing	2 (1-1)
FSAQ-716	New Trends in Fisheries and Aquaculture	3(2-1)
FSAQ-719	Special Problem	1(1-0)
FSAQ-720	Seminar	1(1-0)
FSAQ-730	Research and Thesis	6(0-6)

MS (Public Health)

MAJOR COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
MSPH-701	Foundations of Public Health	2 (1-1)
MSPH-702	Basic Epidemiology	3 (2-1)
MSPH-703	Basic Biostatistics and Computer Applications	2 (1-1)
MSPH-704	Introduction to Evidence Based Public Health	3 (2-1)
MSPH-705	Qualitative Research Methods in Public Health	3 (2-1)
MSPH-706	Environmental Health	2(1-1)
MSPH-707	Social and Behavioral Aspects of Public Health	3 (2-1)
MSPH-708	One Health One Medicine: A Global Health Approach	3 (2-1)
MSPH-709	Agricultural Safety and Health	2 (1-1)
MSPH-710	Culture, Health and Illness	3 (2-1)

MS (Poultry Science)

COMPULSORY 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-704	Egg and Egg Products	2(1-1)
PS-705	Poultry Feeding Management	3(2-1)

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
PS-706	Poultry Meat and Meat Products	3(2-1)
PS-707	Poultry Health and Hygiene	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)
PS-719	Special Problem	1(1-0)
PS-720	Seminar	1(1-0)
PS-730	Research and Thesis	6 (0-6)

COURSE CODE	COURSE TITLE	CREDIT HOURS
MSPH-711	Introduction to Global Health	2 (1-1)
MSPH-712	Communicable and Non-Communicable Diseases Control	3 (2-1)
MSPH-713	Health Education and Health Promotion Health Systems Management	3 (2-1)
MSPH-714	Applied Nutrition	3 (2-1)
MSPH-715	Health Policy	2 (1-1)
MSPH-716	Hospital Management	3(2-1)
MSPH-719	Zoonotic Diseases from Public Health Perspective	1(1-0)
MSPH-720	Special Problem	1(1-0)
MSPH-730	Seminar	6(0-6)
	Research and Thesis	

List of Courses for Postgraduate Degree Programs

Faculty of Social Sciences and Humanities

COMPUTER SCIENCES

CORE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
CS-701	ADVANCED ANALYSIS OF ALGORITHMS	3(3-0)
CS-702	ADVANCED THEORY OF COMPUTATION	3(3-0)
CS-703	THEORY OF PROGRAMMING LANGUAGES	3(3-0)
CS-704	ADVANCED OPERATING SYSTEMS	3(3-0)
CS-705	ADVANCED COMPUTER ARCHITECTURE	3(3-0)
CS-719	SEMINAR	1(1-0)
CS-720	SPECIAL PROBLEM	1(1-0)
TOTAL CREDITS:		17

ELECTIVE COURSES

COURSE CODE	COURSE TITLE	CREDIT HOURS
CS-706	RESEARCH METHODOLOGY*	3(3-0)
CS-707	ADVANCED NETWORKING	3(3-0)
CS-708	MACHINE LEARNING	3(3-0)
CS-709	CRYPTOGRAPHY	3(3-0)
CS-710	ADVANCED DATABASE SYSTEMS	3(3-0)
CS-711	BIG DATA ANALYTICS	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)
CS-722	PROJECT EVALUATION AND ANALYTICS	3(3-0)
CS-723	BUSINESS INTELLIGENCE AND ANALYTICS	3(3-0)





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)

Affidavit (I)

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. _____ father/guardian of Mr./Miss _____ 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 UNIVERSITY OF AGRICULTURE, MULTAN

Performa for Synopsis (GS/5)

(Synopsis for MSc (Hons)/M Phil/MS/PhD

Page I Title _____

Name of student _____ Registration No. _____

Abstract _____

Page II

I. Title _____

II. a) Date of Admission _____ b) Date of Initiation (Research) _____ c) Probable Duration (Research) _____

III. PERSONNEL:

Name of Student _____

a) Registration Number _____

b) Supervisory Committee _____

I. _____

(Supervisor)

II. _____

(Co-supervisor)

III. _____

(Member)

IV. _____

(Member)

IV. Need for project/Introduction _____ V. Review of Literature _____

VI. Materials 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:

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

Performa for Course Work Program (GS/12)

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

I INSTITUTE/DEPARTMENT

II NAME OF THE STUDENT

III REGD NO.

IV DATE OF ADMISSION

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
a) Major courses	_____	_____
b) Minor courses	_____	_____
c) Compulsory minor courses	_____	_____
d) Deficiency courses	_____	_____
e) Audit courses	_____	_____

Dean, Faculty of _____ Chairperson, Department of _____

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

Performa for Progress Report of MSc(Hons)/M Phil/MS/PhD Students (GS/13 Part A)
(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 _____

Supervisory committee:

1. (Supervisor) _____

2. (Member) _____

3. (Member) _____

5. Progress in course work programme(enrolled course)

a) No. of credit enrolled. _____

b) No. of credit qualified _____

c) GPA/CGPA _____

6. Progress in research (given details)

- I. The student has completed the course within the prescribed limit 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 spent and result achieved)

(Signature of the Supervisor)

(Chairperson of the Department)

(Dean of the Faculty)

Application for Re-Admission to Winter/Spring/ Summer Semesters

DEGREE _____

INSTITUTE/DEPARTMENT _____

FACULTY _____

Name of Student. _____

Registration 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 details with documentary evidence

SIGNATURE 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.



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 Work on Permanent Status: _____

Tentative Date of Submission Thesis/Research Report/Research Project: _____

Permanent Home Address: _____

Previous Degree _____ Year 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 Approval _____

Name of the Supervisory

Committee Members 1. _____ (Supervisor) 3. _____ (Member)
2. _____ (Member) 4. _____

Fee Rs. _____ Paid vide _____ Bank Challan No _____ Dated _____ (A copy enclosed)

I solemnly declare that the information given in the form is correct to best of my knowledge and belief.

Dated _____ Signature of the Student _____

Certified that Mr./Miss _____ has worked under my guidance on the above project and the research done is his bonafide work.

Dated _____ Signature of Supervisor _____

Certified that:

- a) The candidate bears a good moral character.
- b) He attempted at least 75% lectures and practical in the course mentioned on above 1 & 2 page.
- c) Is a fit person to be admitted to the examination

Dated _____ Signature of the Chairman Department _____

Dated _____ Signature of the Dean of Faculty _____

Certified that the candidate was admitted by BGSR to the M. Sc./M. Sc. (Hons)/M. Phil/Ph. D courses during the winter/spring semester _____ and 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

Observation on MS/M.Sc. (Hons.)/M Phil/PhD thesis of

Mr./Ms./Mrs. _____

Institute/Department of _____

Faculty 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.

Instruction complied with final typing may be permitted.

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.

Author's Declaration (For PhD)

I _____ 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 work presented in this thesis, entitled _____ was conducted by Mr/Ms. _____ 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 partial fulfillment of requirements for the degree of Doctor of Philosophy in field of _____ Institute/Department University of _____

Student Name: _____

Signature _____

Examination Committee

a) External Examiner 1
(Designation and Office Address)

Signature _____

b) External Examiner 2
(Designation and Office Address)

Signature _____

c) Internal Examiner
(Designation and Office Address)

Signature _____

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

SERIAL NO.	DISCIPLINE	SEATS	
		M.Sc. (Hons.)/MS	Ph.D
1.	AGRONOMY	35	10
2.	ENTOMOLOGY	35	10
3.	HORTICULTURE	35	10
4.	PLANT BREEDING AND GENETICS	35	10
5.	Seed Science and Technology	35	10
6.	SOIL SCIENCE	35	10
7.	Seed Science and Technology	35	10
8.	BIOTECHNOLOGY	35	10
9.	PLANT PATHOLOGY	35	10
10.	AGRICULTURAL ECONOMICS	35	-
11.	COMPUTER SCIENCE	35	-
12.	CLIMATE CHANGE	35	-
13.	MS(MANAGEMENT-AGRIBUSINESS SPECIALIZATION	35	-
14.	POST HARVEST MANAGEMENT TECHNOLOGY	35	-
15.	POULTRY SCIENCE	35	-
16.	FISHERIES AND AQUACULTURE	35	-
17.	PUBLIC HEALTH	35	-

APPENDIX -II

Fee Structure for Postgraduate Degree Programs

SERIAL NO.	DEGREE PROGRAM	FIRST SEMESTER (RS.)	SUBSEQUENT SEMESTER (RS.)
1.	Ph.D.	46500	34500
2.	M.Sc. (Hons.)/MPhil./MS	37000	30000
3.	MSCS/IT	45000	38000

APPENDIX -III

Postgraduate Calendar 2021-22

SERIAL NO.	Particulars/ Activity	DATE
A	Enrollment Winter Semester 2021-22	September 06, 2021
1.	Commencement of Classes	27-09-2021
2.	Mid-Term Examination	22-11-2021
3.	Final Term Examination	17-01-2022
4.	Result Declaration	04-02-2022
	Total Duration	19 Weeks
B	Enrollment Spring Semester 2022	February 07, 2022.
1.	Commencement of Classes	07-02-2022
2.	Mid-Term Examination	04-04-2022
3.	Final Term Examination	30-05-2022
4.	Result Declaration	17-06-2022
	Total Duration	19 Weeks
C	Enrollment Summer Session 2022	June 20, 2022.
1.	Commencement of Classes	20-06-2022
2.	Mid-Term Examination	18-07-2022
3.	Final Term Examination	15-08-2022
4.	Result Declaration	30-08-2022
	Total Duration	10 Weeks

APPENDIX -IV

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

SERIAL NO.	NAME OF COUNTRY	SERIAL NO.	NAME OF COUNTRY
1.	Afghanistan ^{1&7}	25.	Janpan
2.	Australia	26.	Luxemburg
3.	Austria	27.	Malaysia
4.	Belgium	28.	Netherland
5.	Brunei ²	29.	New Zealand
6.	Bulgaria	30.	Nigeria ²
7.	Canada	31.	Norway
8.	China ³	32.	Oman ⁷
9.	Croatia ⁴	33.	Poland
10.	Czech republic	34.	Portugal
11.	Denmark	35.	Romania
12.	Estonia ⁴	36.	Russia
13.	Finland	37.	Singapore
14.	France	38.	Slovak Republic ⁴
15.	Germany	39.	Slovenia ⁴
16.	Georgia ⁴	40.	South Africa
17.	Greece	41.	South Korea
18.	Hong Kong	42.	Spain
19.	Hungry	43.	Sweden
20.	Iceland	44.	Switzerland
21.	India ^{2&5}	45.	Turkey
22.	Iran ^{6&7}	46.	United Kingdom
23.	Ireland	47.	United States
24.	Italy	48.	All Arab Countries ²

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

* serial no. 4 yet to be adopted.

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.		<ul style="list-style-type: none"> 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.	<p>No research paper published and degree awarded.</p> <p>Paper published but not in HEC recognized journal</p> <p>Paper published but not in required category of journal.</p> <p>Paper published after award of Ph.D. degree.</p> <p>Degree awarded on the basis of paper published before synopsis approval.</p> <p>Degree awarded on the basis of the paper that has no relevancy with thesis.</p>	<p>For science disciplines W and X categories + ISI Master list journals are accepted.</p> <p>For social sciences W, X, Y categories + ISI master list journal are accepted</p> <p>Note: Z categories journals for local regional languages only e.g. Punjabi, Pushto, Sindhi, Balochi, Brahvi, Saraiki and Persian.</p>	<ul style="list-style-type: none"> 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
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	<ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> Supervisor be banned from Supervising the new Ph.D. scholar for 05 years. Disciplinary action against Department Chair and Controller of Examination.

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