



# Faculty of Social Sciences and Humanities



# FACULTY OF SOCIAL SCIENCES AND HUMANITIES

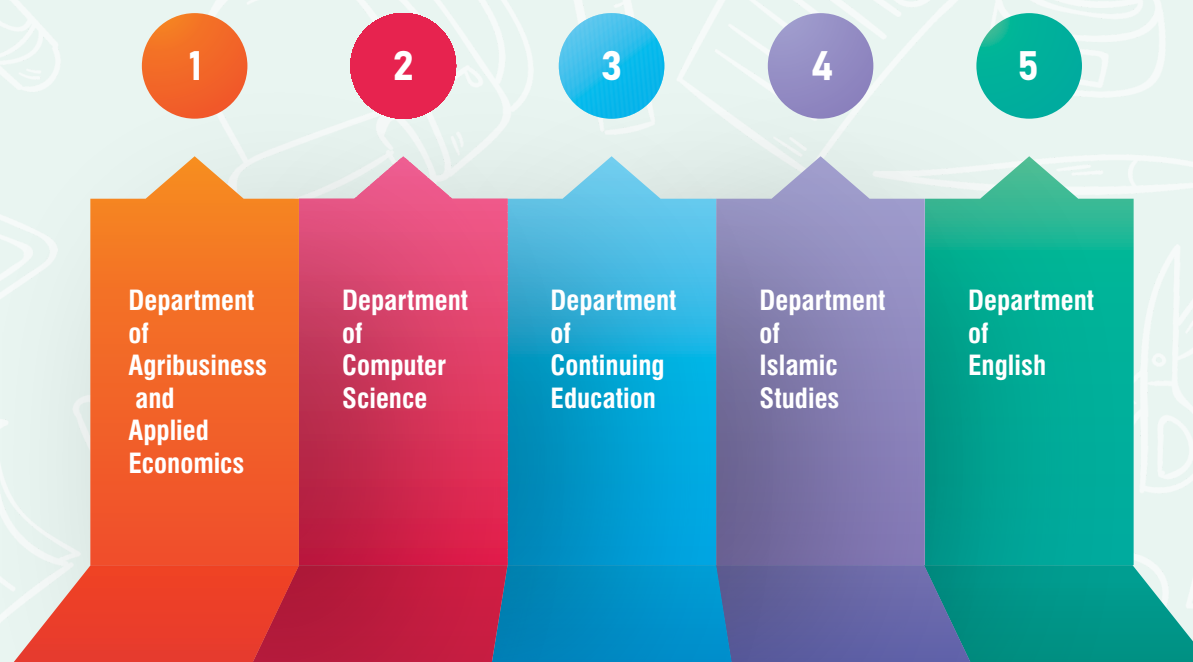
The Faculty of Social Sciences and Humanities is comprised of Department of Agribusiness and Applied Economics, Department of English, Department of Islamic Studies and Department of Computer Sciences. The faculty has total

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.





# 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

## Faculty of Social Sciences and Humanities

- ▶ **M.Sc. (Hons.)**  
Agricultural Economics
- ▶ **MS (Hons.)**  
Computer Sciences  
Management- Agribusiness  
Specialization



## Postgraduate Degree Programs Offered

# 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)



# List of Courses for Postgraduate Degree Programs

## Faculty of Social Sciences and Humanities

### **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 Social Sciences and Humanities

### COMPUTER SCIENCES

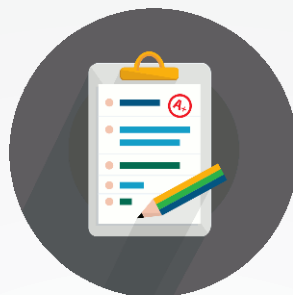
#### CORE COURSES

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
<b>A-MAJOR COURSES</b>						
<b>B-MINOR COURSES</b>						
<b>C-DEFFICIENCIES/AUDIT/ COMPULSORY MINOR COURSES</b>						

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

Signature \_\_\_\_\_

(Designation and Office Address)

b) External Examiner 2

Signature \_\_\_\_\_

(Designation and Office Address)

c) Internal Examiner

Signature \_\_\_\_\_

(Designation and Office Address)

Supervisor Name: \_\_\_\_\_

Signature \_\_\_\_\_

Name of Dean/HOD: \_\_\_\_\_

Signature \_\_\_\_\_



# Plagiarism Undertaking

I solemnly declare that research work presented in thesis titled

---

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

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

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

Student/Author Signature:- \_\_\_\_\_

Name:- \_\_\_\_\_

Registration No.:- \_\_\_\_\_

## APPENDIX -I

### Overall Allocation of Seats for Postgraduate Programs

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	-

## 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 2020-21

SERIAL NO.	Particulars/ Activity	DATE
<b>A</b>		
	Enrollment Winter Semester 2019-20	September 01 to September 11, 2020.
1	Commencement of Classes	14-09-2020
2	Mid-Term Examination	10-11-2020
3	Final Term Examination	06-01-2020
4	Result Declaration	26-01-2021
	Total Duration	20 Weeks
<b>B</b>		
	Enrollment Spring Semester 2020	January 27 to February 03, 2021.
1.	Commencement of Classes	04-02-2021
2.	Mid-Term Examination	02-04-2021
3.	Final Term Examination	31-05-2021
4.	Result Declaration	19-06-2021
	Total Duration	20 Weeks
<b>C</b>		
	Enrollment Summer Session 2020	June 21-28, 2021.
1.	Commencement of Classes	29-06-2021
2.	Mid-Term Examination	28-07-2021
3.	Final Term Examination	26-08-2021
4.	Result Declaration	07-09-2021
	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 <sup>1&amp;7</sup>	25.	Japan
2.	Australia	26.	Luxemburg
3.	Austria	27.	Malaysia
4.	Belgium	28.	Netherland
5.	Brunei <sup>2</sup>	29.	New Zealand
6.	Bulgaria	30.	Nigeria <sup>2</sup>
7.	Canada	31.	Norway
8.	China <sup>3</sup>	32.	Oman <sup>7</sup>
9.	Croatia <sup>4</sup>	33.	Poland
10.	Czech republic	34.	Portugal
11.	Denmark	35.	Romania
12.	Estonia <sup>4</sup>	36.	Russia
13.	Finland	37.	Singapore
14.	France	38.	Slovak Republic <sup>4</sup>
15.	Germany	39.	Slovenia <sup>4</sup>
16.	Georgia <sup>4</sup>	40.	South Africa
17.	Greece	41.	South Korea
18.	Hong Kong	42.	Spain
19.	Hungary	43.	Sweden
20.	Iceland	44.	Switzerland
21.	India <sup>2&amp;5</sup>	45.	Turkey
22.	Iran <sup>6&amp;7</sup>	46.	United Kingdom
23.	Ireland	47.	United States
24.	Italy	48.	All Arab Countries <sup>2</sup>

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 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/Mphil. And Ph.D. students should be such that the number of Ph.D. candidates does not Exceed 05)	DD-QA/HEC N/ QAC/ 2015/125 Dated February 27, 2015	Supervisor be banned from supervising the new Ph.D. Scholars for 05 years Disciplinary Action against Department Chair.
7	Review of thesis from technologically/ academically advanced country	Thesis reviewed from one technologically/ Academically advanced country only.  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"> <li>One paper be published by the student from his/her thesis research before degree attestation.</li> <li>Supervisor be banned supervising the new Ph.D. scholar for 05 years</li> <li>Disciplinary action against department chair.</li> <li>The officer (s) responsible for sending the thesis to foreign experts be warned.</li> </ul>



## 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"> <li>Supervisor be banned from supervising the new Ph.D. scholars for 05 years.</li> <li>Disciplinary action against Department.</li> </ul>
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"> <li>Paper to be published in the required category of HEC recognized journal before attestation of the degree.</li> <li>Supervisor be banned from supervising the new Ph.D. scholars for 05 years.</li> <li>Disciplinary action against Department Chair</li> </ul>
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"> <li>Degree will not be accepted /attested.</li> <li>Supervisor be banned from supervising the new Ph.D. scholar for 05 years.</li> <li>Disciplinary action against Department Chair</li> </ul>
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"> <li>Supervisor be banned from Supervising the new Ph.D. scholar for 05 years.</li> <li>Disciplinary action against Department Chair and Controller of Examination.</li> </ul>

# Department of AGRONOMY



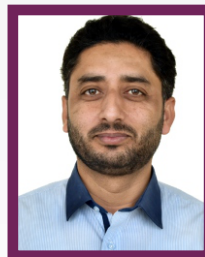
## DR. ABDUL GHAFFAR

Position: Associate Professor and Chairman

Qualification: PhD

Expertise: Cropping System and climate change scenario

Email: [abdul.ghaffar@mnsuam.edu.pk](mailto:abdul.ghaffar@mnsuam.edu.pk)



## DR. KHURAM MUBEEN

Position: Assistant Professor

Qualification: PhD

Expertise: Weed Science, Resource Conservation

Email: [khuram.mubeen@mnsuam.edu.pk](mailto:khuram.mubeen@mnsuam.edu.pk)



## DR. FAHIM NAWAZ

Position: Assistant Professor

Qualification: PhD

Expertise: Stress Physiology

Email: [fahim.nawaz@mnsuam.edu.pk](mailto:fahim.nawaz@mnsuam.edu.pk)



## DR. RAO MUHAMMAD IKRAM

Position: Assistant Professor

Qualification: PhD

Expertise: Weed Ecology, Allelopathy

Email: [rao.ikram@mnsuam.edu.pk](mailto:rao.ikram@mnsuam.edu.pk)



## DR. AMAR MATLOOB

Position: Assistant Professor

Qualification: PhD

Expertise: Weed Science and Allelopathy, Stress Agronomy

Email: [amar.matloob@mnsuam.edu.pk](mailto:amar.matloob@mnsuam.edu.pk)



## DR. MUHAMMAD ASIF SHEHZAD

Position: Assistant Professor

Qualification: PhD

Expertise: Abiotic stress and Plant Nutrition

Email: [asif.shehzad@mnsuam.edu.pk](mailto:asif.shehzad@mnsuam.edu.pk)



## DR. MUQARRAB ALI

Position: Assistant Professor

Qualification: PhD

Expertise: Crop Nutrition, Residue Management

Email: [muqarrab.ali@mnsuam.edu.pk](mailto:muqarrab.ali@mnsuam.edu.pk)



## DR. SHAHID IQBAL

Position: Assistant Professor

Qualification: PhD

Expertise: Crop Physiology & Crop Diversification

Email: [shahid.iqbal@mnsuam.edu.pk](mailto:shahid.iqbal@mnsuam.edu.pk)

## Department of **AGRONOMY**



### **DR. M. HABIB UR RAHMAN**

Position: Lecturer

Qualification: PhD

Expertise: Cropping System Modeling, Climate Change

Email: habib.rahman@mnsuam.edu.pk



### **DR. MUHAMMAD AMIR BAKHTAVAR**

Position: Lecturer

Qualification: PhD

Expertise: Seed Technology, Crop Physiology

Email: amir.bakhtavar@mnsuam.edu.pk



### **DR. MUDASSIR AZIZ**

Position: Lecturer

Qualification: PhD

Expertise: Stress Agronomy, Crop Nutrient Management

Email: mudassir.aziz@mnsuam.edu.pk



### **MR. NABEEL AHMAD IKRAM**

Position: Lecturer

Qualification: M.Sc. (Hons.) Agronomy

Expertise: Weed Crop Interference

Email: nabeel.ahmad@mnsuam.edu.pk



# Department of FOOD SCIENCE & TECHNOLOGY



## DR. UMAR FAROOQ

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



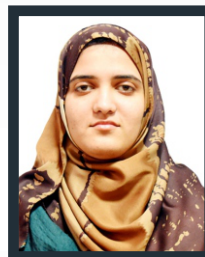
## DR. SHAMAS MURTAZA

Position: Lecturer  
Qualification: PhD  
Expertise: Dairy Technology  
Email: shasmurtaza@yahoo.com



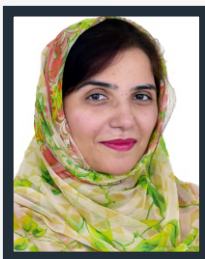
## DR. MUHAMMAD SHAHBAZ

Position: Assistant Professor  
Qualification: PhD  
Expertise: Food Microbiology and Safety, Nutraceuticals and Functional Foods  
Email: shahbaz.ft@mnsuam.edu.pk



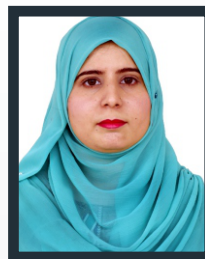
## MS. HAFSA UMER

Position: Lecturer (Study leave)  
Qualification: M.Sc. (Hons.) Food Technology  
Expertise: Dairy Technology  
Email: hafsa.umer@mnsuam.edu.pk



## DR. AMBREEN NAZ

Position: Assistant Professor  
Qualification: PhD  
Expertise: Functional Foods, Nutraceuticals, Food Chemistry, Advanced Nutrition  
Email: ambreen.naz@mnsuam.edu.pk



## DR. AFSHAN SHAFI

Position: Lecturer  
Qualification: M.Sc. (Hons.) Food Technology  
Expertise: Food Technology, Microbiology, Food Quality and Safety  
Email: afshan.shafi@mnsuam.edu.pk



## DR. SHABBIR AHMAD

Position: Assistant Professor  
Qualification: PhD  
Expertise: Food Chemistry, Cereal Technology, Dairy Technology  
Email: shabbir.ahmad@mnsuam.edu.pk



## MS. NIGHAT RAZA

Position: Lecturer  
Qualification: M.Sc. (Hons.)  
Expertise: Dairy Microbiology, Community nutrition, Functional Food  
Email: nighat.raza@mnsuam.edu.pk

# Department of HORTICULTURE



## DR. ISHTIAQ AHMAD RAJWANA

Position: Professor and Chairman  
Qualification: Ph.D  
Expertise: Quality improvement, Postharvest biology and technology of fresh produce, Genetic Conservation  
Email: ishtiaq.rajwana@mnsuam.edu.pk



## DR. HAFIZ NAZAR FARIED

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Olericulture, Tunnel farming  
Email: nazar.farid@mnsuam.edu.pk



## DR. MUHAMMAD AMIN

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Postharvest science and technology; Fresh produce supply/Value chains  
Email: m.amin@mnsuam.edu.pk



## DR. GULZAR AKHTAR

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Floriculture and landscaping, Plant Tissue Culture  
Email: gulzar.akhtar@mnsuam.edu.pk



## DR. KASHIF RAZZAQ

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Pomology, Postharvest physiology of fruits  
Email Address: kashif.razzaq@mnsuam.edu.pk



## SYED BILAL HUSSAIN

Position: Lecturer (Ex-Pakistan Study Leave)  
Qualification: M.Sc. (Hons.) Horticulture  
Expertise: Fruit production, Fruit quality, Citriculture  
Email: bilal.hussain@mnsuam.edu.pk



## DR. SAMI ULLAH

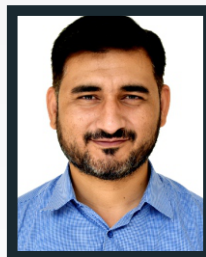
Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Pomology, Postharvest physiology of fruits  
Email: samiullah@mnsuam.edu.pk

# Department of SOIL & ENVIRONMENTAL SCIENCES



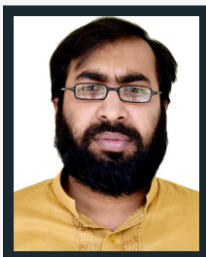
## DR. TANVEER UL HAQ

Position: Associate Professor & Chairman  
Qualification: Ph.D, Post-Doc  
Expertise: Saline agriculture, Plant stress physiology  
Email: tanveer.ulhaq@mnsuam.edu.pk



## DR. ABID HUSSAIN

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Soil and environmental chemistry  
Email: abid.hussain@mnsuam.edu.pk



## DR. MUHAMMAD IMRAN

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Soil physics, Solute movement in soil  
Email: m.imran@mnsuam.edu.pk



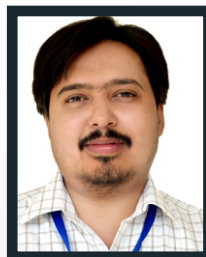
## DR. WAZIR AHMAD

Position: Lecturer  
Qualification: Ph.D  
Expertise: Soil fertility and plant nutrition  
Email: wazir.ahmed@mnsuam.edu.pk



## DR. MUHAMMAD BAQIR HUSSAIN

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Soil microbiology and biochemistry  
Email: baqir.hussain@mnsuam.edu.pk



## DR. MUHAMMAD USMAN JAMSHAI

Position: Lecturer  
Qualification: Ph.D  
Expertise: Soil microbiology  
Email: usman.jamshaid@mnsuam.edu.pk



## DR. SHAKEEL AHMAD

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Soil fertility and plant nutrition  
Email: shakeel.ahmad@mnsuam.edu.pk



## MR. MUHAMMAD ARIF

Position: Lecturer (Ex-Pakistan Study Leave)  
Qualification: M.Sc. (Hons.) Soil Science  
Expertise: Soil microbiology  
Email: muhammad.arif@mnsuam.edu.pk

# Institute of PLANT BREEDING & BIOTECHNOLOGY



## DR. ASIF ALI

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



## DR. UMMARA WAHEED

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Plant transformation and tissue culturing  
Email: ummara.waheed@mnsuam.edu.pk



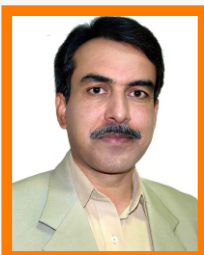
## DR. ZULFIQAR ALI

Position: Professor  
Qualification: Ph.D, Post-Doc  
Expertise: Resource conservation molecular plant breeding  
Email: zulfiqar.ali@mnsuam.edu.pk



## DR. SARMAF FROGH ARSHAD

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Association mapping, family based linkage analysis, genetic divergence pattern studies, molecular diversity analysis  
Email: sarmad.arshad@mnsuam.edu.pk



## DR. M. HAMMAD NADEEM TAHIR

Position: Professor and Director  
Qualification: Ph.D, Post-Doc  
Expertise: Genetic improvement of oilseeds and fodder crops, Breeding soybean for adaptability in scenario of climate change  
Email: hammad.nadeem@mnsuam.edu.pk



## DR. ZULOARNAIN KHAN

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Genome editing; cloning  
Email: ranazulqurnain@yahoo.com



## DR. MUHAMMAD ABU BAKAR SADDIQUE

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Changing the architecture of cereals for supporting maximum number of grains  
Email: abubakarpbg@yahoo.com



## DR. M. MAHMOOD AHMED

Position: Assistant Professor  
Qualification: Ph.D. Crop Biotechnology  
Expertise: Crop Genomics, Crop Informatics  
Email: mahmood.ahmed@mnsuam.edu.pk



# Institute of PLANT BREEDING & BIOTECHNOLOGY



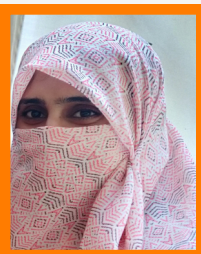
## DR. SHOAIB UR REHMAN

Position: Assistant Professor  
Qualification: Ph.D., Post Doc  
Expertise: Marker assisted selection, Molecular marker development, Genomic selection  
Email: shoaib.rehman@mnsuam.edu.pk



## MR. MUHAMMAD ALI SHER

Position: Lecturer  
Qualification: M.Sc. (Hons.) Agriculture-PBG  
Expertise: Gene mapping for abiotic stress tolerance in bread wheat Epigenetics  
Email: ali.sher@mnsuam.edu.pk



## DR. AKASH FATIMA

Position: Assistant Professor  
Qualification: Ph.D  
Expertise: Development of climate resilient cotton through precision breeding and gene expression profiling



## MS. PLOSHA KHANUM

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



## MR. BABAR FAREED SHER

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



## MS. SAIMA RASHEED

Position: Lecturer  
Qualification: M.Phil  
Expertise: Plant abiotic stress  
Email: saima.rashid@mnsuam.edu.pk



## MR. FURQAN AHMAD

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



## MR. MUHAMMAD USMAN

Position: Lecturer (Study Leave)  
Qualification: M. Phil. Biotechnology  
Expertise: Gene cloning, Gene Transformation, Nanoparticles  
Email: muhammad.usman@mnsuam.edu.pk



## MR. MAHMOOD ALAM KHAN

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

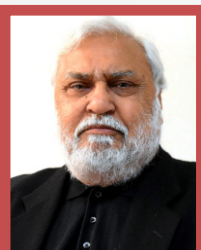
**DR. SHAFQAT SAEED**

Position: Professor and Director

Qualification: PhD (Korea)

Expertise: Pollination Ecology, IPM of Cotton/Mango

Email: shafqat.saeed@mnsuam.edu.pk

**DR. MUHAMMAD ARSHAD SHAKEEL**

Position: Adjunct Faculty

Qualification: PhD

Expertise: Insect Ecology

Email: muhammadarshadshakeel@gmail.com

**MR. MUHAMMAD ZAFARYAB HAIDER**

Position: Subject Expert

Qualification: M.Sc. (Hons.) Agri.

Expertise: Post-Harvest

Email: zafaryab.haider@mnsuam.edu.pk

**DR. UNSAR NAEEM ULLAH**

Position: Assistant Professor

Qualification: PhD

Expertise: Insect Biodiversity and Taxonomy,

Public Health Entomology

Email: unsar.naeem@mnsuam.edu.pk

**DR. MIRZA ABDUL QAYYUM**

Position: Assistant Professor

Qualification: PhD

Expertise: Insect Microbiology

Email: qayyum.mirza@mnsuam.edu.pk

**(Entomology)****DR. MUDSSAR ALI**

Position: Assistant Professor

Qualification: PhD

Expertise: Pollinator Ecology and Biology

Email: mudssar.ali@mnsuam.edu.pk

**DR. NAEEM IQBAL**

Position: Assistant Professor

Qualification: PhD

Expertise: Urban Pest Management

Email: naeem.iqbal@mnsuam.edu.pk

**DR. MUHAMMAD ISHTIAQ**

Position: Assistant Professor

Qualification: PhD

Expertise: Insecticide Toxicology

Email: m.ishtiaq@mnsuam.edu.pk

**MS. HAFIZA TAHIRA GUL**

Position: Lecturer

Qualification: M.Sc. (Hons.) Entomology

Expertise: Insect Microbiology

Email: tahira.gul@mnsuam.edu.pk



## DR. MUHAMMAD ASHFAQ

Position: Professor

Qualification: Ph.D, Post-Doc

Expertise: Molecular Plant Virology

Email: mashfaq@mnsuam.edu.pk



## DR. NADEEM AHMAD

Position: Assistant Professor

Qualification: Ph.D

Expertise: Epidemiology, physiology and biochemistry of plant diseases and their management

Email: nadeem.ahmad@mnsuam.edu.pk



## DR. HASAN RIAZ

Position: Assistant Professor

Qualification: Ph.D

Expertise: Evolutionary Virology, Whitefly-Virus Interactions

Email: hasan.riaz@mnsuam.edu.pk



## DR. MUHAMMAD ARSLAN KHAN

Position: Assistant Professor

Qualification: Ph.D

Expertise: Biological Control Agents, Bio-Pesticides, Plant nematology, Nematodes-Fungi interaction, Management of plant disease complexes

Email: arsalan.khan@mnsuam.edu.pk



## DR. MIRZA ABID MEHMOOD

Position: Lecturer

Qualification: Ph.D (China)

Expertise: Microbial Metagenomics and Metatranscriptomics, Soil Microbiomes, Phytobiomes

Email: abid.mehmood@mnsuam.edu.pk



## MR. ASIF MAHMOOD ARIF

Position: Lecturer (On study leave)

Qualification: M.Sc. (Hons.) Agri.

Expertise: Fungal diseases of fruits crops, Identification of soil mycoflora using different isolation techniques and their management

Email: asif.mahmood@mnsuam.edu.pk

## Department of COMPUTER SCIENCE



### **DR. AYESHA HAKIM**

Position: Assistant Professor & Head of Department

Qualification: Ph.D

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

Email: ayesha.hakim@mnsuam.edu.pk



### **DR. ABDUL RAZZAQ**

Position: Assistant Professor

Qualification: Ph. D

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

Email: abdul.razzaq@mnsuam.edu.pk



### **DR. AAMIR HUSSAIN**

Position: Assistant Professor

Qualification: Ph.D

Expertise: Smart System, Cyber Security, Wireless Sensor Networks

Email: aamir.hussain@mnsuam.edu.pk



### **MR. ADNAN ALTAF**

Mr. Adnan Altaf

Position: Lecturer

Qualification: MS Computer Engineering

Expertise: Digital Image Processing

Email: adnan.altaf@mnsuam.edu.pk



### **MR. ISRAR HUSSAIN**

Position: Lecturer

Qualification: MS Information Technology

Expertise: Semantic Web and Database

Email: israr.hussain@mnsuam.edu.pk



### **MS. JAVERIA JABEEN**

Position: Research Officer

Qualification: MS Computer Science

Expertise: Software Engineering

Email: javeria.jabeen@mnsuam.edu.pk



# Department of AGRIBUSINESS & APPLIED ECONOMICS



## DR. IRFAN AHMAD BAIG

Position: Professor & Dean

Qualification: Ph.D

Expertise: Climate change, Resource use efficiency, Water resource management

Email: irfan.baig@mnsuam.edu.pk



## DR. NASIR NADEEM

Position: Associate Professor

Qualification: Ph.D

Expertise: Agricultural Productivity, Impact analysis, Agriculture policy analysis

Email: nasir.nadeem@mnsuam.edu.pk



## DR. UMAR IJAZ AHMED

Position: Assistant Professor

Qualification: Ph.D

Expertise: Food Security, Agricultural Policy Analysis, Market Integration

Email: umar.ijaz@mnsuam.edu.pk



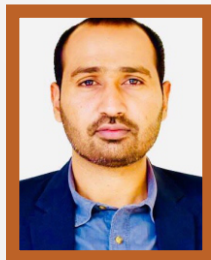
## MR. MUHAMMAD ARQAM IQBAL

Position: Lecturer (Agricultural Economics)

Qualification: M.Sc. (Hons.) Agricultural Economics

Expertise: Resource use efficiency and productivity, Agricultural policy and economic analysis of major crops

Email: arqam.iqbal@mnsuam.edu.pk



## MR. MUHAMMAD ALI IMRAN

Position: Lecturer (Agricultural Economics)

Qualification: M.Sc. (Hons.) Agricultural Economics

Expertise: Economics of Climate-smart agriculture (CSA), Resource management and sustainable agriculture Analysis, Market Integration

Email: ali.imran@mnsuam.edu.pk



## DR. SAMI ULLAH

Position: Assistant Professor

Qualification: Ph.D

Expertise: Productivity and efficiency analysis, Dairy markets, Agricultural policy, Market integration

Email: sami.ullah@mnsuam.edu.pk



## MR. MANAN ASLAM

Position: Lecturer

Qualification: MS Agribusiness and Marketing

Expertise: Agribusiness, Agricultural Marketing, Consumer Behavior, Business Ethics and Entrepreneurship

Email: manan.aslam@mnsuam.edu.pk



## MS. BEENISH SARFRAZ

Position: Lecturer

Qualification: MSBA Marketing

Expertise: Consumer behavior, Marketing and Management, Business ethic

Email: benish.sarfraz@mnsuam.edu.pk



## MR. SHOAIB NASIR

Position: Lecturer (Agricultural Economics)

Qualification: Masters of Science (ENVIROFOOD), Germany M.Sc. (Hons.) Environmental and Resource Economics, UAF

Expertise: Natural Resource Economics, Global GAP and International Standards Compliance

Email: shoaib.nasir@mnsuam.edu.pk



## MNS-UNIVERSITY OF AGRICULTURE, MULTAN

📍 Agriculture Complex, Old Shujabad Road, Multan-Punjab-Pakistan 🌐 [www.mnsuam.edu.pk](http://www.mnsuam.edu.pk) ☎️ +92 61 9201541, 9201560