1. University Historical Development & Background:

Modeled on the University of Cambridge, AMU was among the first institutions of higher learning set up during the British Raj. Originally it was Mohammedan Anglo-Oriental College, which was founded by a great Muslim social reformer Sir Syed Ahmed Khan.

Aligarh Muslim University continues to function as a premiere educational institution in India, and draws students from all states in India and from different countries, especially Africa, West Asia and Southeast Asia. In some courses, seats are reserved for students from SAARC and Commonwealth Countries. It ranks 8th among the top 20 research universities in India.

University has more than 28,000 students, 1,342 teachers and some 5,610 non-teaching staff on its rolls. The University now has 12 facilities comprising 98 teaching departments, 3 academies and 15 centres and institution. The University has a campus spread over 467.6 hectares of land.
A special feature of the university is its residential character with most of the staff and students residing on the campus. Aligarh Muslim University offers more than 300 courses in the traditional and modern branches of education. The campus is situated at Aligarh, which is well connected by train, road and air. The nearest international is Indira Gandhi International Airport 150 kms away. Aligarh is situated in the middle of Doaba - the land between the Ganga and Yamuna rivers, at a distance of 130 km Southeast of Delhi on the Delhi-Howrah rail route and the Grand Trunk Road. The latitude is 27°54' N and longitude is 78°05' E. The climate is hot and dry in summer and cold and dry in winter with an intervening rainy season. The University campus is 2 kms away from the Aligarh Railway Station.

2. Faculty of Agricultural Sciences, AMU, Aligarh

An Agricultural Centre was established in 1984 at Aligarh Muslim University, Aligarh by using university’s own resources. The centre became a full-fledged Institute of Agriculture in 1993 during VIII Five year Plan with the approval and financial support from ICAR (later named as Rafi Ahmad Kidwai Institute of Agricultural Sciences). In August 2000, the institute was accorded the status of Faculty.
3. Academic Programmes:

At present the faculty has the following courses:

1. Ph. D.
2. M. Sc. (Ag.) Plant Protection
3. M. Sc. (Ag.) Microbiology
5. Master of Agribusiness Management
6. M. Sc. (Home Science)
7. B. Sc. (Home Science)

4. Departments of Faculty:

A.M.U. has 12 faculties (including one of Agricultural Sciences), 6 colleges and 14 centres. It has no affiliated colleges. At present the Faculty of Agricultural Sciences comprises of five departments namely:

1) Department of Agricultural Economics & Business Management
2) Department of Agricultural Microbiology
3) Department of Home Science
4) Department of Plant Protection
5) Department of Post Harvest Engineering & Technology

5. Number of PG seats available in each Department

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Department</th>
<th>Students Intake (P.G.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Agricultural Microbiology</td>
<td>10 + 2*</td>
</tr>
<tr>
<td>2.</td>
<td>Agricultural Economics &amp; Business Management</td>
<td>16 + 4*</td>
</tr>
<tr>
<td>3.</td>
<td>Home Science</td>
<td>16</td>
</tr>
<tr>
<td>4.</td>
<td>Post Harvest Engineering &amp; Technology</td>
<td>10 + 2*</td>
</tr>
<tr>
<td>5.</td>
<td>Plant Protection</td>
<td>10 + 2*</td>
</tr>
<tr>
<td></td>
<td>Total:-</td>
<td>72</td>
</tr>
</tbody>
</table>

*ICAR Quota.
### 6. Admission Criteria:

- Ph.D./M.Phil. - Through Admission Test.
- M.Sc. (Ag.) Plant Protection - Through Departmental Test.
- M.Sc. (Ag.) Microbiology - Through Admission Test.
- Master of Agribusiness Management - Through Admission Test.
- M.Sc. (Home Science) - Through Departmental Test.
- B.Sc. (Home Science) - Through Admission Test.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Course</th>
<th>No. of seats</th>
<th>Eligibility Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>B. Sc. Hons. Home Science</td>
<td>30 (F)</td>
<td>Passing of Senior Secondary school or an equivalent examination with at least 55% marks in aggregate in English and 3 subjects from amongst Biology, Chemistry, Mathematics, Physics and Home Science.</td>
</tr>
<tr>
<td>2.</td>
<td>M. Sc. (Agriculture) Microbiology</td>
<td>10+2*</td>
<td>B.Sc. Agriculture/Microbiology/Biochemistry/Biotechnology/ Bioinformatics/ Plant Molecular Biology with not less than 55% marks in aggregate. OR B.Sc. (life Sciences) with Zoology, Botany &amp; Chemistry of equal value or with either Zoology/Botany/Chemistry as main/major subjects and the other 2 as subsidiary subjects with not less 55% marks in aggregate as well as in the main subject</td>
</tr>
<tr>
<td>3.</td>
<td>M. Sc. Agriculture (plant Protection)</td>
<td>10+2*</td>
<td>B.Sc.Agriculture/Horticulture/Biotechnology/Forestry/Microbiology/Biochemistry with not less than 55% marks in aggregate. OR</td>
</tr>
<tr>
<td>Specialization</td>
<td>Qualification</td>
<td>Admission Requirements</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Plant Pathology</td>
<td>B.Sc. (Life Sciences)/Bio Sciences</td>
<td>with Zoology Botany and Chemistry of equal value with either Zoology/Botany/Chemistry with as main/major subjects and the other 2 as subsidiary subjects with not less 55% marks in aggregate as well as in main subject.</td>
<td></td>
</tr>
<tr>
<td>Entomology</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Master Agribusiness management (MAM)

| Master Agribusiness management (MAM) | 16+4* | Bachelor's degree in any discipline with at least 55% marks in aggregate. |

5. M. Tech. in Agricultural Process & Food Engineering

| M. Tech. in Agricultural Process & Food Engineering | 10+2* | B.Tech or its equivalent degree in Chemical/Agricultural/Food/Mechanical/Dairy Engineering/Bio chemical with 60% marks in aggregate. OR M.Sc. in Physics or Chemistry or Industrial Chemistry with 55% marks in aggregate at M.Sc. level having studied Physics, Chemistry & Mathematics; or Industrial Chemistry with Mathematics at M.Sc. level and have passed 10+2 or equivalent examination with Physics, Chemistry & Mathematics |


| M. Sc. Home Science | 16 | B.Sc. Home Science with 60% marks in aggregate |

*ICAR quota (F) For females only

**7. Fee Payment Requirement at the time of Admission:**

<table>
<thead>
<tr>
<th>B.Sc. (Home Science)-Girls-</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident External</td>
<td>7235/-</td>
</tr>
<tr>
<td>Resident Internal</td>
<td>6985/-</td>
</tr>
<tr>
<td>Non-Resident External</td>
<td>5585/-</td>
</tr>
<tr>
<td>Non-Residential Internal</td>
<td>5335/-</td>
</tr>
</tbody>
</table>

**Boys** -
- Resident External - 12,755/-
- Resident Internal - 11,755/-
- Non-Resident External - 11,105/-
- Non-Residential Internal - 10,105/-

**Girls** -
- Resident External - 12,005/-
- Resident Internal - 11,755/-
- Non-Resident External - 10,355/-
- Non-Residential Internal - 10,105/-

**M.Sc. Home Science**

**Girls** -
- Resident External - 8,255/-
- Resident Internal - 8,005/-
- Non-Resident External - 6,605/-
- Non-Residential Internal - 6,355/-

All admission related details may be found at [http://www.amucontrollerexams.com](http://www.amucontrollerexams.com)
All details of Student services are available at [http://www.amu.ac.in](http://www.amu.ac.in)

**8. Sanctioned and Filled Staff position:**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the Department</th>
<th>Sanctioned</th>
<th>Filled in Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Agricultural Microbiology</td>
<td>05</td>
<td>04</td>
</tr>
<tr>
<td>2.</td>
<td>Agricultural Economics &amp; Business Management</td>
<td>05</td>
<td>05</td>
</tr>
<tr>
<td>3.</td>
<td>Plant Protection</td>
<td>07</td>
<td>07</td>
</tr>
<tr>
<td>4.</td>
<td>Home Science</td>
<td>07</td>
<td>04</td>
</tr>
<tr>
<td>5.</td>
<td>Post Harvest Engineering &amp; Technology</td>
<td>05</td>
<td>03</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>29</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>
9. Research Achievements

Department of Plant Protection:

- **Publication**: around 900 research papers, review articles etc. have been published by the faculty in international and national journals, and 8 authored/edited books from USA, Germany and India.
- **Faculty of the department has got 18 major research projects** sanctioned from ICAR, NATP, UGC, DBT, DST, UPCST, UPCAR etc. with a total grant of over Rs. 15 million.
- The department is also a Centre for All India Coordinated Research Project (AICRP) on Plant Nematodes.

**PATENTS GRANTED: 03**

   Patent No. US 7,815,903 B2, Date of grant: 19 Oct., 2010,
   Patent assignees: Department of Biotechnology, New Delhi and Aligarh Muslim University, Aligarh.
   Patent inventors: Dr. Mujeebur Rahman Khan, Shahana Majid, F A Mohiddin, Nabilah Khan

   Patent inventors: Prof. Akhtar Haseeb and Others

3. Indian Patent: A novel composition for producing biopesticides based on *Trichoderma harzianum*, *Pochonia chlamydosporia* and *Pseudomonas fluorescens*, Patent No. 239609, Date of grant: 26 March, 2010,
   Patent assignees: Department of Biotechnology, New Delhi and Aligarh Muslim University, Aligarh.
   Patent inventors: Dr. Mujeebur Rahman Khan, Shahana Majid, F A Mohiddin, Nabilah Khan

Department of Agricultural Microbiology:

**Publications**

| Research Papers | : | 293 |
| Books | : | 18 |
| Research Projects | : | 23 |
| National | : | 21 |
| International (collaborative) | : | 02 |
| M. Phil./ Ph. D. students guided | : | 30 |

**On-going Innovative Research Activities:**

- Microbial biofilm: Exploration and exploitation
- Novel anti-infective properties of natural products and Medicinal Plants
- Microbial diversity exploration and utilization in Agriculture, environment and human health

**Facilities Developed:**

1. A small Sophisticated Instrumentation Lab
2. A separate Computer Facility for students
3. Small Form House structure constructed
## Department of Post Harvest Engineering and Technology

### Ongoing research projects:

<table>
<thead>
<tr>
<th>Name &amp; Designation Investigators</th>
<th>Title of Project</th>
<th>Funding Agency</th>
<th>Duration and Date</th>
<th>Total of sanctioned fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Er. Mohammad Ali Khan, PI</td>
<td>All India Coordinated Research Project on Post Harvest Technology</td>
<td>ICAR</td>
<td>Plan to Plan basis</td>
<td>For XII-Plan it is awaited</td>
</tr>
<tr>
<td>Dr. Saghir Ahmad, Co-PI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Er. A.K. Srivastava, Co-PI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### completed research projects

<table>
<thead>
<tr>
<th>Name &amp; Designation Investigators</th>
<th>Title of Project</th>
<th>Funding Agency</th>
<th>Duration and Date</th>
<th>Total of sanctioned fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Er. Mohammad Ali Khan, PI</td>
<td>“Minimization of Environmental Impacts of Slaughter House Waste by Value Addition as Pet Foods”</td>
<td>Ministry of Environment &amp; Forests</td>
<td>3 yrs. &amp; 8 months February, 2008 to October, 2010</td>
<td>44.00 lacs</td>
</tr>
<tr>
<td>Er. A.K. Srivastava, Co-PI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Department of Ag. Economics & Business Mgt.

### Project Completed:

UGC Major Research Project on "Examining the Viability of Micro-Finance Investment in Non-Farming Sector Through Self Help Groups (SHGs): A Case Study of U.P. State" by Dr. Rais Ahmad (Funded by UGC)

### Project Ongoing:

UGC Major Research Project on “Use of Biotechnology . . “ by Dr. Akram A. Khan (Funded by UGC)

## 10. Outreach/ Extension Programmes

### Department of Home Science

It comprises of field work and extension programs, giving a practical approach to the various disciplines of Home Science. The programs include visits to Papa Miyan School, Blind School giving an insight about the life of visually impaired, orphans and mentally challenged children. Folk media like puppet shows, nukkad natak, folk songs etc. gives an opportunity to relate to the rural audience of Nagla Quila, Jawan Block and other rural areas of Aligarh district. These programs not only gives interaction and feedback time to both the educator and the audience but even influence their life as they are thought provoking and awareness creating thus bringing a desirable change in the community. It helps in sensitizing the students on the above issues.
11. Major Technologies commercialized in Last Five year:

- Patent Granted: 02 Two patents on the novel process to produce fungi and bacteria based biopesticides have been granted (awarded) in USA and India with the help of DBT, New Delhi.
- A novel process to produce biopesticides based on fungi and bacteria has been invented.
- Establishment of emerging food technology lab.
- Establishment of food packaging lab.

12. Future Plans:

**Diploma/ Polytechnic**
Polytechnic (Diploma) in Agriculture (3 Years)
Polytechnic (Diploma) in Horticulture (3 Years)

**Undergraduate Courses**
B. Sc. Agriculture ( 4 Years’ course after XII)
B.Sc. Ag. (Under graduate programme of 6 years) after 10th class (2+4).
B.Sc. Horticulture (B.Sc. Hort.) 4 Years’ course after XII
B. Tech. Agriculture/Horticulture (4 Years after XII, and 3 years after Diploma)

**Postgraduate Courses**
M. Sc. (Ag.) Integrated Post graduate programme (4+2)
Master of Retail Management (2 years’ course after graduation)
M.B.B.M. (Master of Biotech Business Management)
P.G. Diploma in Food Microbiology & Quality Assessment
M. Sc. Horticulture

**Name of the Nodal Officer with Contact Details:**

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Faculty of Agricultural Sciences
A. M. U., Aligarh.
Ph. No. +91 571 2901426, 2702238 (Int. 3754, 3772, 3766)
E-mail: shamimagri@hotmail.com