Chapter 2
Profile of Institutions
PROFILE OF INSTITUTIONS

ALIGARH MUSLIM UNIVERSITY

The establishment of Mohammedan Anglo Oriental (MAO) College in 1875 marks one of the most important events in the educational and social history of modern India. Its establishment is considered as the first significant response of the Indian Muslims to the challenges of post 1857 era. It was an important catalyst in a process of social change among Muslims. "An epoch in the social progress of India" - with these words on his lips Lord Lytton laid the foundation stone of the Mohammadan Anglo Oriental College on January 8, 1877. Nearly eight years later, when the noted Orientalist Sir Hamilton Gibb looked back at the history of Muslim Transition from the medieval to the modern way of life, he characterized this College as "the first modernist institution in Islam".

The M.A.O. College was originally affiliated with Calcutta University, and was transferred to the Allahabad University in 1885. It was also around this time that a movement began to have it develop into a university to stand on its own. In 1920, the Act of Indian Legislative Council elevated the Mohammedan Anglo Oriental College to the status of a Central University and it became the principal Muslim Institution in India.
AMU occupies an exalted position among Indian Universities and its contribution to nation building is in no way inferior to the best among the lot. AMU is perhaps the only University in the country, which has high schools in its domain. It has as many as five high schools including one for the visually handicapped, and two senior secondary schools for boys and girls. With more than 30000, students, about 1400 teachers and some 6000 non-teaching staff on its rolls, it has 12 faculties comprising a wide spectrum of academic disciplines (95 departments, 5 institution and 13 centres) and 18 halls of residence with 73 hostels. The University offers 325 courses.

The University has the Z.H. College of Engineering and Technology, Jawaharlal Nehru Medical College, Dr.Ziauddin Dental College, Institute of Ophthalmology and Food Craft Institute, Interdisciplinary Biotechnology Unit, Centre of Advance Study in History, Centre of West Asian Studies, Centre of Wildlife, Academic Staff College, Women's College, Ajmal Khan Tibbiya College, University Polytechnic for boys and girls, separately and Computer Centre. The University has a campus spread over 467.6 hectares of land.

It attracts students from all over the world, especially Africa, West Asia and South East Asia. The language taught here includes English, Urdu, Hindi, Arabic, Persian, Sanskrit, Telugu, Tamil, Bengali, Malayalam,
Marathi, Punjabi Kashmiri, French, Turkish, German and Russian. The medium of instruction is primarily English.

It is a well know University having traditional faculties such as:

- Faculty of Arts
- Faculty of Social Science
- Faculty of Agriculture
- Faculty of Commerce
- Faculty of Law
- Faculty of Life Science
- Faculty of Science
- Faculty of Engineering & Technology
- Faculty of Management Studies and Research
- Faculty of Medicine
- Faculty of Unani Medicine
- Faculty of Theology

Here we discussed about Z.H. Engineering College and Technology and Faculty of Law:
1. ELECTRONICS ENGINEERING

The Department of Electronics Engineering was formally created in February 1988 on a proposal submitted by the Faculty of Engineering and Technology, Aligarh Muslim University (AMU), Aligarh, to the University Grants Commission. In its original recommendations, the Faculty had submitted proposals for a comprehensive Programme in Electronics Engineering catering to the requirements in the area at the Undergraduate (UG), Postgraduate (PG), and research levels. These proposals were basically made in view of the national requirements in the thrust area of electronics, and after taking into consideration the availability of a strong infrastructure in this area at the Aligarh Muslim
University. The expert committee of the All India Council for Technical Education (AICTE), Northern Region, visited the university on 19th August 1986 and examined the proposals for the creation of new department. On the recommendations of this committee and subsequent sanction of the UGC (under VII Plan), a Bachelor's degree Programme (with an intake of 30 students diverted from the Electrical Engineering Department) was started, with the name "Department of Electronics Engineering".

2. COMPUTER ENGINEERING

The department of Computer Engineering was created in the Faculty of Engineering & Technology by the president of India in his capacity as the visitor of the Aligarh Muslim University dated 13.06.1991 from the Ministry of Human Resource Development. The Department is currently running a B.Tech. Programme in Computer Engineering and an M.Tech. Programme in Computer Science and Engineering with specialization in Software Engineering.

The Department of Computer Engineering is currently running an eight Semester B. Tech. programme in Computer Engineering, and a four semester M.Tech programme in Computer Science & Egg. With specialization in Software Engineering. The Department also offers Ph.D. Programme in emerging areas of Computer Engineering.
The Department of Computer Engineering has as well qualified, dedicated and highly motivated staff. The teaching faculty comprises young and dynamic staff members who are highly proficient and competent. Our B.Tech students have achieved almost 100% placement in prestigious both at national as well as international level.

The Department has the following well equipped laboratories:-

➢ Software Laboratory
➢ Hardware Laboratory
➢ Advanced Computing Laboratory
➢ Networking Laboratory

There are several state of the art equipment including desk top Computers and Servers based on Windows, Solaris, and linux platforms. All laboratories and staff Rooms and offices are fully network and connected to The Internet through the College Network as well as the University Network.

The teaching staff is actively involved in Research and Development activates in the emerging areas of Computer Engineering. Currently research is being carried out in the areas of Computer Networking, Parallel Computing, Web Mining, Soft Computing, Multimedia Technologies, Embedded Systems, E-Learning and software Engineering.
3. ELECTRICAL ENGINEERING

The department of Electrical Engineering (EED) was established in 1935 with an intake of 20 students for certificate courses and subsequently started Bachelors Degree programme in 1940 and produced its first graduate in 1943. A new phase of major developments in the department started during third five-year plan when the intake was raised to 90. The UGC sanctioned the funds for the additional space, equipments and staff to meet the requirements of the increased intake. While implementing the new schemes, changes and modifications were made in the curriculum of the B.Sc. Engineering course in order to be at par with the International standards. A postgraduate course in “Instrumentation and Control”, the first postgraduate course in the Faculty of Engineering & Technology, was sanctioned and started in 1964 with an intake of 10 students. During the fourth five-year plan, the number of postgraduate course increased to three with a total intake of 25 students with scholarship. The department was bifurcated in 1988 with creation of a separate Department of Electronics Engineering. In effect 60 UG and 34 PG (With two streams; Power System & Drives and Instrumentation & Control) intake were left with the EED.

The Electrical Engineering Department is encompassed within the Zakir Husain college of Engineering and Technology. The department evolves
around professional, qualified educators providing quality education to students with hands on experience, serving the state and the nation in a competitive global environment. For over 60 years the department has been an ever-learning institution, receptive and responsible to corporate, professional and social obligations, creating an atmosphere of culture conducive to academic excellence.

The department has a sanctioned strength of 25 staff members. Out of the existing staff members, 14 have doctoral degrees specializing in the areas of Power systems, Electrical Machines, Electrical Drives, High Voltage Engineering, and Instrumentation, Control systems, Biomedical Engineering, Microprocessors & Computers and Renewable sources of Energy.

4. MECHANICAL ENGINEERING

The Department of Mechanical Engineering of the Aligarh Muslim University was established about sixty years back. Ph.D., M.Tech., B.Tech. & B.E. (Evening) programmes are being offered. Ninety two students in B.Tech. and forty two in the three M.Tech. Courses (Thermal Engineering, Industrial & Production Engineering and Machine Design) are admitted every year on the basis of written competitive tests on all India bases. The department offers 85 UG & 33 PG Courses in the various disciplines of mechanical Engineering.
The Department has a very well qualified teaching staff actively engaged in teaching & research and contributing effectively in administrative & corporate life of the campus. The faculty has published over 600 research papers in the International & National Journals of repute.

5. CHEMICAL ENGINEERING

The Department of Chemical Engineering at A.M.U. was born with the visit of His Highness Sheikh Zayed Bin Sultan Al-Nahyan of the UAE in 1975 as a beginning towards the larger goal of establishing an Institute of Petroleum Studies. As a first step in this direction, the approval of the UGC was obtained for the creation of the Department in the fifth Five Year Plan and it came into existence in 1978, when the first five year undergraduate course in Chemical Engineering started with an intake of thirty students (now it is a four year degree course as everywhere).

A Post-graduate Diploma in Petroleum Processing was started in the Department in 1987, which was upgraded to full-fledged degree in M.Sc. Engineering (Petroleum Processing) in 1988. The course was, however later transferred to the Department of Petroleum Studies in 1993. There was no PG programme in the Department for about 06 years.

6. PETROLEUM TECHNOLOGY DEPARTMENT

The idea of establishing an Institute of Petroleum Technology at Aligarh Muslim University was conceived following the visit of His Highness Sheikh Zaid Bin Sultan Al Nahyan, President of UAE who visited
Aligarh Muslim University, Aligarh on Jan 01, 1975. In view of the above and realizing the importance of the job oriented courses and future demand of the country in the area of Petroleum Studies, the University submitted a proposal for the Establishment of the Petroleum Institute to the University Grants Commission, Govt. of India, New Delhi. The UGC sanctioned the Establishment of the Institute of Petroleum Studies & Chemical Engineering in 1983 in phased manner, renamed as "Department of Petroleum Studies.

7. CIVIL ENGINEERING
The Department of Civil Engineering in the Faculty of Engineering and Technology has been constantly contributing to the cause of engineering education and training right since its inception in the year 1942. Over the last five decades, the department has grown manifold and shared immensely in the technology transfer and the propagation of technological advancements to the industry in particular and to the masses in general.

8. DEPARTMENT OF ARCHITECTURE
The Department of Architecture was established in the year 1993 & the First batch graduated in the year 1998. The Department is under the faculty of Engineering and Technology and runs as per the norms of the Council of Architecture and AICTE.
It is thus mandatory for any & every Institution imparting education in Architecture at UG & / PG level, to meet their prescribed standards for the same. Every graduate is supposed to get registered with the body to be legitimately called as “Architect” & pursue the profession of Architecture in the country.

9. DEPARTMENT OF APPLIED PHYSICS

The Department of Applied Sciences, which was established in 1958 in the Faculty of Engineering and Technology, A.M.U. Aligarh, was split into 3 sections namely Physics, Chemistry and Mathematics, in 1963. Subsequently, separate Board of Studies were created by the Academic Council in 1970 for these three sections. In January 1988, a full-fledged department of Applied Chemistry was established, having a total strength of :-

Professors - 02
Readers - 03
Lecturers - 08

Total - 13

The Department of Applied Chemistry has been engaged mainly in the teaching of the courses pertaining to Applied Chemistry (Theory & Lab.) to undergraduate students of the Engineering Faculty. The Department is
also actively involved in the teaching of Post-Graduate courses in the Faculty, particularly in the Department of Petrochemical Engineering. The teachers of this Department take Post-graduate classes, such as in the Department of Chemistry Faculty of Science, for teaching Industrial Chemistry. Certain courses such as Chemical Instrumentation Advanced Materials Science and High Polymer Science & Technology are also being taught by our department to the students of this and other faculties of the University.

The Department of Applied Physics in the Faculty of Engineering and Technology of the Aligarh Muslim University became a full fledge Department in January 1988 and prior to this it was part of Applied Sciences Department. The Department consists of 12 teaching and 13 non teaching staff.

The University Grants Commission sanctioned the establishment of Institute of Petroleum Studies & Chemical Engineering in 1983, in a phased manner. The Institute also got financial assistance from His Highness Sheikh Zaid bin Sultan Al Nahyan, the then president of UAE, who visited Aligarh Muslim University, Aligarh on Jan 01, 1975. Later this Institute was renamed as the Department of Petroleum Studies under the Faculty of Engineering & Technology. The Department is
successfully serving the much felt need of deploying young men in petrobased industries and is bridging the gap between academic institutions and industrial requirements.

FACULTY OF LAW

The Law Society is comprised of a bunch of students actively involved in the affairs of the Faculty of Law, Aligarh Muslim University, and Aligarh. It was founded in 1894 as a non-profit student organization. It has long traditional character which always uplifts the student’s participation and performance in relation to legal affairs in different arena.

The Society consists of a yearly selected committee made up of current law students from all year. The Dean, Faculty of Law is the President of the Society. The main task of the Law Society is to assist students within the Department of Law with all aspects of their study, whether its first year or fifth year students committee members feeling comfortable and confident in a new environment and a new course or just advising fellow students on how to find a law firm placement and internship during the course of study. We mobilize students in legal and quasi-legal areas of concern and to built up a strong consensus on a particular issue and to develop a broad base of students actively engaged in legal affairs through Moot Court competition, legal discussion and presentation discourses.
The society organizes events, both academic and social, from annual fest to freshers social and farewell party for final year students.

Networking with legal professional forms an important part of our work in building a presence for Aligarh Muslim University Law graduates with the legal profession.

Of course, the fact that we are studying law does not mean we all want to be lawyers, and so we provide information and encourage discussion in all area, and where legal staffs, an employee such as government officer in legal department.

The Aligarh Muslim University Law Society believe strongly in communication and creating a supportive environment in which students within the department of law can have their experience and discuss problems.