



# MESCO INSTITUTE OF PHARMACY



Research and  
development



Clinical  
Pharmacy



Forensic  
Pharmacy



PROSPECTUS 2018-19 »»





## » VISION

“ Learning gives creativity, creativity leads to thinking, thinking provides knowledge, knowledge makes you great ”

Dr A.P.J. Abdul Kalam

MESCO Institute of Pharmacy's vision and goal for community development includes cultivating talents that are equipped with humanistic empathy, innovative capacity and a scientific perspective.

## » MISSION

At MESCO Institute of Pharmacy (MIP) our mission is to groom future industry leaders and academicians in the pharmacy discipline who are not only thorough professionals but also good human beings with good values & excellent interpersonal skills. We aim to be a world class centre of pharmaceutical learning driven by professionalism, dynamism, innovation and research.

The umbrella body behind MIP, Worldwide Center for Educational Research (WCER), is an educational infrastructure company, managed by high profile professionals in the field of education, technology, finance and consultancy. WCER has been established with a mandate to scout for and provide support, motivation and leadership to educational projects, particularly in minority dominated blocks in the country.

## From the Chairman's desk



### Chairman's profile

Mr Kamal Faruqui is a renowned practicing Chartered Accountant associated with several important positions in Government and Non- Government organizations. A self-made man and a front-ranking modern face of Indian Muslims, his efforts originate from the belief that education is the key to effective nation-building, promoting women education and modernization of madrasas and many more. Mr Kamal Faruqui is a prolific speaker, efficient organizer, expert on issues of minority rights, communal harmony and inter-faith dialogue. He promotes educational activities to dispel economic backwardness for effective nation building. He is actively associated with civil society groups.

Mr Kamal Faruqui has been involved with multiple educational institutions across the country and is on the board of many medical and professional colleges across the country. As an Ex-Director of Central Bank of India and Former Chairman of Delhi Minorities Commission he has made significant contribution in diverse fields. Mr Faruqui is already well known and trusted in Amroha, his birthplace, for establishing and successfully running an education hub comprising of MESCO Public School and RBMM, a college imparting B Ed (Bachelor of Education) programme.

Pharmacy education is an exciting and unique blend of science, healthcare, technology, business, and counselling. It also provides you with a variety of rewarding, stable, high-paying career options. And it's an industry that's both poised for continual growth and also actively involved in improving living conditions across the globe.

Pharmacy practice is an indispensable part of modern health care, and the demand for well-trained pharmacists is projected to grow well into the 21st century.

“Real education enhances the dignity of a human being and increases his or her self-respect.”

Dr. A. P. J. Abdul Kalam

At MESCO Institute of Pharmacy, our goal is to provide an exemplary, learner-centered pharmacy education. We are dedicated to harnessing the passion and work ethic of our students and faculty to create the very best pharmacy education.

As the healthcare needs of the nation, and the world continue to grow, the escalating demands on the healthcare system will require increasing participation of pharmacists to assist healthcare teams and health-systems provisions.

With these thoughts in mind, MESCO Institute of Pharmacy is excited to begin its Pharmacy program from the academic year 2018.

I welcome you to MESCO Institute of Pharmacy.

The journey has begun and we are excited for the future!



## Profession of Pharmacy

The practice of pharmacy has evolved from a historical emphasis on the preparation and distribution of drug products to new activities and responsibilities that focus on the rational, safe and cost-effective use of drugs. Just as it is generally assumed that physicians are primarily involved in providing medical care and nurses in providing nursing care, pharmacists are the primary providers of pharmaceutical care. The mission of the pharmacy profession, therefore, is to meet the pharmaceutical care needs of the public.

In the pharmaceutical industry, pharmacists are valuable contributors to research and development programs, clinical trials of new medications, and quality control efforts. Additionally, pharmacists may develop and/or implement marketing and sales strategies, assure compliance with government regulations, and assist in public relations.

The pharmaceutical industry is one of the most dynamic and sustainable industry growing at healthy rates. This will lead to an increase in employment opportunities for well-trained pharmaceutical scientists in which pharmacy graduates are well qualified to participate. Industrial pharmacy has diversified, with consolidation in the industry, and now offers a wide choice of career structure both in large innovative pharmaceutical companies and smaller support organizations.

There is a huge variety of roles available within the pharmaceutical industry. Students of pharmacy discipline can make their careers in the following realms:

- Research & Development – typically working in labs to identify molecules that could be used in medications, or on current medications to improve them.
- Validation – assess and document all equipment and processes to ensure that an action, process or system leads to a consistent and reproducible result.
- Quality Assurance – monitoring the processes and procedures of manufacturing to make sure they meet predefined standards.
- Production (Process) – the machinery and systems that actually produce the pharmaceutical product.
- Quality Control – providing testing and checks throughout the manufacturing process to make sure product standards are maintained.
- Regulatory Affairs – deal with the applications and paperwork surrounding regulations that need to be fulfilled before a medicine can be sold to the public.
- Sales and Marketing – commercial roles for effective selling and promotion of pharmaceutical products

# Infrastructure and facilities

Our modern campus is comfortably located on Dhanaura Road, Amroha (UP) and is designed to meet world-class infrastructure standards, playgrounds with modern play equipments, classrooms with latest technology, well equipped labs, abundant light and air and high level of safety and security.

The campus is equipped with modern labs, class rooms, seminar hall, library, student centre for cocurricular activities, computer labs, academic and administrative blocks and other amenities with executive and widespread provision for indoor and outdoor games.

**Classrooms:** - All the classrooms are spaciously designed and are well furnished with necessary technical teaching aids like OHP, Slide projectors, LCD Projector, Laptop and power supply.

**Seminar Hall:** - The Institute possesses a Seminar Hall. The hall will play host to guest lectures, seminars and various presentations.

**Library:-** The library at MESCO Institute of Pharmacy has a rich collection of printed as well as electronic resources which include:-

- Books including for particular topics or subjects as well as reference books like dictionaries, encyclopedias, e-books, etc.
- National and International Journals & Magazines
- Database and Audiovisual material

**Computer Facilities:** - With an ever increasing emphasis on technology,

MESCO Institute of Pharmacy has set up computer labs equipped with sufficient number of computers with the latest configuration and software. Wi-Fi facility is also available at the institute.

## Herbal Garden

Keeping needs of future research in mind in the field of pharmacognosy, one of the core fields of Pharmaceutical research, MIP has established a herbal garden to teach students about the evaluation and extraction of drugs obtained from plant source.

## SMS Service

The Institute uses an effective SMS service to establish a strong communication link with students. With SMS alerts, students are regularly updated about the latest happenings in the institute.

## CCTV Surveillance

CCTV cameras have been installed in the institute premises for safeguarding the well-being of all students and staff. The CCTV Surveillance system is a way of ensuring a safe, secure and healthy learning environment for children.

## Well Equipped Labs

Modern and well equipped Labs as per the necessary requirements prescribed by approving bodies for different branches of pharmacy viz. Pharmaceutics, Medicinal Chemistry, Pharmacology and Pharmacognosy.

## Cricket Academy

Recognising recreational needs of the students, a Cricket Academy has been set up in the campus.

# ADVISORS

## Dr Fakhruddin Mohammed

A doctor by profession, he is known for his contributions in the field of education, relief, religious training and service to the poor and the needy, particularly for Muslim community. He pursued medicine and did masters (MD) in Anaesthesiology from Tata Memorial Hospital, University of Mumbai. He also holds a Diploma in Hospital Administration. He is presently Chief Physician MESCO Diagnostic Centre. He has served as Director Administration between 2000 and 2010 at Princess Durru Shehvar Children's Hospital, Purani Haveli, Hyderabad and as Professor of Anaesthesia at K.B.N.M.C .University of Health Science, Karnataka and MES Medical College, Calicut, Kerala.

## Mr Shabi Ahmad

Mr Shabi Ahmad is an ex-bureaucrat from the Ministry of HRD, Govt. of India and is known as an administrator par excellence, prolific speaker and an expert on education, minority rights and Haj affairs. He is currently the CEO of Anjuman-i-Islam, a 145 years old organization that runs around 90 educational institutes in Maharashtra helping the community advance in education and social standing. A former CEO of Central Haj Committee, Ministry of External Affairs, he has been a recipient of a merit award by All India Management Executives, Mumbai and was given the title of Samajsri. As a founder member of RBMM, Amroha and being associated with institutions like AKK Inter College, he has contributed significantly towards educational upliftment of the community.

## Dr Shah Alam Khan

Dr Shah Alam Khan is a PhD in Pharmaceutical Chemistry from Jamia Hamdard University. He is currently a Professor of Pharmaceutical Medical Chemistry and has a rich teaching experience of 20 years. His area of research interest and specialization include Bio-organic and Medicinal Chemistry, Natural Product Chemistry and Pharmaceutical Analysis. He has been a high achiever all through his academic life and also in his professional career.

## Sana Kamal

Sana Kamal is a Masters in Pharmaceutics and an MS in Management of Health Industries from Essec Business School, Singapore. She has several years of experience in the Pharmaceutical Industry across functions including Patient Access, Regulatory Affairs, Pharmacovigilance and Formulation Development with leading pharmaceutical companies like Novartis, Pfizer, Zoetis, Ranbaxy (now Sun Pharma).

# Words of Encouragement

Prof R.K. Khar  
Dean  
BS Anangpuria College of Pharmacy, Faridabad

“ Every dreamer is not a doer and every doer is not a dreamer. You have the right combination of being a dreamer and a doer. Good luck to MESCO Institute of Pharmacy for the new initiative. Your goal of serving the nation and the community will surely reap benefits. ”

Satish Mehta  
CEO & Managing Director  
Emcure Pharmaceuticals Ltd.

“ Today, we need pharma professionals who can apply their knowledge and skills in delivering quality services and products to patients with empathy and integrity. MESCO Institute of Pharmacy with their vision, are on the right path to achieve this. Good Luck. ”

Dr Mrs Zeenat Iqbal  
Associate Professor  
School of Pharmaceutical Education & Research, Jamia Hamdard

“ I wish MESCO Institute of Pharmacy the very best in this new endeavor. The mix of right attitude, skilled faculty, management skills and experience is the recipe for the success of an institute. I believe MIP has all the ingredients to become a success. ”

Milind Patil  
Chief Financial Officer, Middle East and North Africa  
Novartis Pharma, Dubai, UAE

“ A pharmacy graduate and pharmacist should have sufficient knowledge, professional, social and communication skills; and exhibit specific attitudes and behavior to effectively discharge their professional roles. This is the need of the hour for any working professional. My best wishes to MESCO Institute of Pharmacy to help students attain the required skills. This is a great pathway in reaching millions of patients and serving the society. ”

Shazli Ahmed Khan  
Director, Business Development & Licensing  
Novartis Asia Pacific, Singapore

“ Though the road may be rocky and filled with difficulties, we know that you can fight whatever challenges you face. I wish MESCO Institute of Pharmacy all the best for this new challenge. ”



# Courses

## BACHELOR OF PHARMACY

**Duration:** Four years (8 semesters)

**Seats:** 60 seats per year

**Recognised by:** - AICTE, Ministry of HRD, Govt. of India & U.P Govt., Approval by PCI, New Delhi awaited

**Affiliating University:** - Dr APJ Abdul Kalam Technical University, U.P., Lucknow

**Course Structure:** -This Course is a 4 year programme based on yearly examination system, which includes theory & practicals besides individual training. The B.Pharm Course has been specially designed by Dr. APJ Abdul Kalam Technical University, U.P., Lucknow for those who are eager to acquire professional skill in the field of pharmaceutical education. This definitely provides employment and business opportunities anywhere across the globe. The course has been divided into eight semesters, which include theory & practical besides project work and industrial exposure.

### Course Content

#### B Pharmacy

#### FIRST AND SECONDYEAR

##### Semester I

#### THEORY

- Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry)
- Pharmaceutics-I (General Pharmacy)
- Anatomy, Physiology and Pathophysiology-I
- Pharmaceutical Analysis-I
- Computer Fundamentals

#### PRACTICAL/PROJECT

- Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry) Practical
- Pharmaceutics-I (General Pharmacy) Practical
- Anatomy, Physiology and Pathophysiology-I Project
- Pharmaceutical Analysis-I Practical
- Computer Fundamentals Practical

## Semester II

### THEORY

- Pharmaceutical Chemistry-II (Organic Pharmaceutical Chemistry)
- Pharmaceutical Chemistry-III (Pharmaceutical Physical Chemistry)
- Anatomy, Physiology and Pathophysiology-II
- Pharmaceutical Biostatistics

### PRACTICAL/PROJECT

- Pharmaceutical Chemistry-II (Organic Pharmaceutical Chemistry) Practical
- Pharmaceutical Chemistry-III (Pharmaceutical Physical Chemistry) Practical
- Anatomy, Physiology and Pathophysiology-II Practical
- Pharmacognosy-I Practical
- Pharmaceutical Biostatistics Project

## Semester III

### THEORY

- Pharmaceutical Chemistry-III (Heterocyclic & Bioorganic Chemistry)
- Pharmaceutics-II (Unit Operations)
- Pharmaceutics-III (Hospital & Community Pharmacy)
- Anatomy, Physiology & Pathophysiology-III
- Pharmacognosy-II

### PRACTICAL/ PROJECT

- Pharmaceutical Chemistry-III (Heterocyclic & Bioorganic Chemistry) Practical
- Pharmaceutics-II (Unit Operations) Practical
- Pharmaceutics-III (Hospital & Community Pharmacy) Practical
- Anatomy, Physiology & Pathophysiology-III Project

- Pharmacognosy-II Practical
- \*\* Human Value & Professional Ethics/ Cyber Security

## Semester IV

### THEORY

- Pharmaceutical Chemistry-IV (Molecular Biology & Biochemistry)
- Pharmaceutics-IV (Physical Pharmacy)
- Pharmaceutics-V (Cosmetic Technology)
- Pharmaceutical Analysis-II
- Pharmaceutical Jurisprudence

### PRACTICAL/ PROJECT

- Pharmaceutical Chemistry-IV (Molecular Biology & Biochemistry) Practical
- Pharmaceutics-IV (Physical Pharmacy) Practical
- Pharmaceutics-V (Cosmetic Technology) Practical
- Pharmaceutical Analysis-II Practical
- Pharmaceutical Jurisprudence Project (Case Studies)
- \*\*Cyber Security/ Human Value & Professional Ethics



## DIPLOMA IN PHARMACY

**Duration:** 2 years

**Seats:** 60 seats per year

**Recognised by:** - AICTE, Ministry of HRD, Govt. of India & U.P Govt., Approval by PCI, New Delhi awaited

**Affiliating University:** - Board of Technical Education U.P

**Course Structure:** - This Course is a 2 year programme based on yearly examination system, which includes theory & practical besides individual training.

### Course Content

#### D.Pharm (1st year) Theory

- Pharmaceutics-I
- Pharmaceutical Chemistry-I
- Pharmacognosy

- Biochemistry & Clinical Pathology
- Human Anatomy & Physiology
- Health Education & Community Pharmacy

#### Practical

- Pharmaceutics-I
- Pharmaceutical Chemistry-I
- Pharmacognosy
- Biochemistry & Clinical Pathology
- Human Anatomy & Physiology

#### 2nd Year

- Pharmacology and Toxicology
- Drug store and business management
- Hospitals and Clinical Pharmacy
- Pharmaceutics and Pharmaceutical Chemistry
- Pharmaceutical Jurisprudence



# Admission Process

## 1. Admission

Admissions to the B. Pharm. And D. Pharm. courses will be made as per the rules prescribed by Dr. APJ Abdul Kalam Technical University UP, Lucknow, Board of Technical Education UP, Lucknow and Pharmacy Council of India.

## 2. Eligibility for Admissions:

a. Candidates must have passed intermediate exam of U.P. Board or 10+2 exam. or its equivalent from any recognised Board/

University with Physics, Chemistry and Mathematics or Biology as compulsory subjects for admission to first year of B. Pharm and D. Pharm

b. Any other qualification approved by Pharmacy Council of India and AKTU, Lucknow as equivalent to any of the above examinations.

### Timelines

Academic session 2018-19  
begins in July 2018



# Training and Placement Cell

MESCO Institute of Pharmacy enjoys a strong network within the Indian and global pharmaceutical industry with its advisors having had the privilege of working with leading pharmaceutical companies like Novartis, Pfizer, Zoetis, Ranbaxy (now Sun Pharma) etc across different functions like Sales, marketing, regulatory affairs, formulation development, business development, intellectual property rights etc.

The placement cell at MESCO institute of pharmacy is spearheaded by such industry experts that have an eye for most lucrative career options coming up in the pharmaceutical industry. Through their efficient network, the placement cell keeps in touch with leading players in the pharmaceutical and healthcare industry to

help bridge the gap between academic and corporate circles.

Some of the career options available after pursuing quality pharmacy education that MESCO Institute of Pharmacy envisages giving its pupils are :

- Sales and marketing roles in pharmaceutical and healthcare sector
- Research and development
- Production and manufacturing
- Quality control and quality assurance
- Clinical Pharmacy
- Regulatory affairs
- Intellectual property rights
- Pharma covigilance and Drug Safety
- Forensic Pharmacy
- Medical writing



## Ragging is Banned at MESCO Institute of Pharmacy

According to the ruling of the Hon'ble Supreme Court of India, "In case the applicant for the admission is found to have indulged in ragging in the past or if it is noticed later that he has indulged in ragging, Admission may be refused or he/she shall be expelled from the education institute."

Any student of MESCO Institute of Pharmacy found involved in ragging inside or outside the college/hostel shall be punished heavily with a fine up to Rs.50,000/- and may also be expelled from the college with immediate effect without any notice.



