

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## FACULTY OF PHARMACY

### 1. Introduction

Pharmacy education has its roots way back in 1932 when it was started at Banaras Hindu University (BHU). The pharmacy course has undergone many transformations to impart quality education on different aspects like industrial pharmacy, hospital pharmacy, clinical practices and traditional systems of medicines along with use of technology and coding.

**Bachelor of Pharmacy (B. Pharm)** is an undergraduate degree course in the field of Pharmacy education. It is a versatile and dynamic field and is considered as one of the most sought after degrees in the healthcare industry because of better professional growth, rewards, and recognition as a professional and also wide career options. As a student of Pharmacy, you will learn about the diverse sources of medicines, related formulations, doses and their effects on the human body called the therapeutic effect.

This **four-years** degree course of Pharmacy deals with various subjects that broadly include synthesis of drugs, formulation of dosage, their chemical, instrumental and preclinical analysis, testing of new drugs on laboratory animals, patenting of the new drug, marketing of drugs, etc. The study of herbal medicines is also one of the interesting branches of Pharmacy education.

A **Master of Pharmacy (M. Pharm)** degree holder is one pharmacy course that is structured in a way to provide entire technical, researched, practical and theoretical knowledge of pharmacy including traditional and modern medicines. This **two years** master's degree is of great value because a person holding this degree is as specialized knowledgeable as a medical practitioner with years of experience, in fact, way ahead of doctors by acquiring knowledge with experience of complete health care industry.

**Pharm D and Pharm. D. (Post Baccalaureate)** course is related with the clinical exposure to the students where students can do training at the associated hospital. This encourages the students to get acquainted with the knowledge of hospital and disease condition of the patient. Pharm D course is of **six years** (five years of study and one year of internship or residency).

**B. Pharm (Practice)** is course intended exclusively for students completed Diploma in Pharmacy and needs to upgrade the qualification. This is **two year** course where students can complete the course along with regular practice as Pharmacists.

## **2. Aims and Objective:**

- To produce Pharmacy graduates with strong foundation concepts and high technical proficiency in pharmaceutical sciences and technology.
- To provide students with a strong and well-defined concept in the various fields of pharmaceutical sciences viz., Pharmaceutics, Pharmaceutical chemistry, Pharmacognosy, Pharmacology and Pharmaceutical research according to the requirement of Pharmaceutical industries, community and hospital pharmacy.
- To develop a sense of teamwork and awareness amongst students towards the importance of interdisciplinary approach for developing competence in solving complex problems in Pharmaceutical Sciences.
- To encourage the students to participate in life-long learning process for a highly productive career and to relate the concepts of Pharmaceutical Sciences towards serving the cause of the society.
- To inculcate leadership and entrepreneurship capabilities in future pharmacists.

## **3. Special features**

- Whenever a cure for a disease is found, the Pharmacy has a really big role in researching and testing it before it is available for treatment. Medicine includes diagnosing the cause of disease and then, treatment to eradicate the disease or to prevent it from growing in the environment; Pharmacists are becoming an integral part of the healthcare industry for this and making the sector a success. It is a major segment of the healthcare Industry contributing to research in medicinal drugs as well as developing, manufacturing, and supply of medications in the market.
- As a Pharmacy practitioner who understands medicines majorly work in research and development of pain drugs, work on medical complications by altering the drugs. Also, to quality check and control as per the regulations of Pharmacy Council. The Pharmacy sector is divided into different segments including hospital/clinical pharmacy, industrial pharmacy and Pharmacy Regulators, etc.
- A Pharmacy course is the gateway for entering the Pharmacy sector in the Medical and Health Care Industry. One who pursues this degree studies core subjects including Pharmaceutics, Pharmacology, Pharmaceutical Chemistry and Pharmacognosy. The Pharmacy industry offers not just developing drugs but also, testing for quality check, regulating labs, pharmaco-vigilance and clinical trials as per the standards.

#### **4. Program Out comes**

- Pharmacy Graduates will be well equipped with pharmacy knowledge qualifying them to be successful in research, pharmaceutical and healthcare industry.
- Pharmacy Graduates will be motivated to pursue higher education.
- Pharmacy Graduates will be groomed through participation in various professional and social activities to enhance their overall personalities.

#### **5. Carrier scope and Job opportunities**

The pharmacy sector offers lots of opportunities to the students after the completion of the course. The students can work in a Pharmaceutical company or can practice as a Pharmacist. There is huge number of opportunities available for the students in both public and the private sector. One can also work in a government sector and also can work in an Abroad Company.

After completing course, one can work at government hospitals, private medical shops & private hospitals/clinics. One can also start your own consultancies & medical shop.

The students can work in a Pharmaceutical company or can practice as a Pharmacist. In Pharmaceutical Company, one can work in departments such as quality control, manufacturing, packing marketing, production, etc.

One can also make your career in Pharmaceutical Management & marketing field as a Production Manager, Medical Representative, Area Manager, etc.

After the completion of the course the students can work as a:

- Chemical/Drug Technician
- Bio-Technology Industries
- Drug Therapist
- Drug / Health Inspector
- Hospital Drug Coordinator
- Pharmacist
- Pathological Lab
- Research & Development
- Making Prescription to Patients
- Scientist
- Research Officer
- Clinical research officer/ Clinical trial inspectors

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