

# Life Sciences

## Introduction of the Sector

The pharmaceutical industry in India ranks 3rd in the world in terms of volume and 14th in terms of value, the Indian pharmaceutical market has a growth of 10 percent year by year.

India contributes the second-largest share of the pharmaceutical workforce in the world. It has 3000 drug companies and about 10,500 manufacturing units.

With the expected growth rate of 14% per annum, the Indian Pharmaceutical sector is expected to create more jobs in India in the future. The 'Pharma Vision 2020' by the government's Department of Pharmaceuticals aims to make India a major hub for an end to end drug discovery. The pharma sector has a competitive advantage of prospering steadily and thus attracts lots of young professionals looking at pharmaceutical as their prospective career option.

## B. Voc. in Pharmaceutical Manufacturing

### Course Introduction

By considering the latest practices in pharmaceutical industry, the syllabus is designed to meet the theoretical aspects required for Vocational Education. The syllabus is designed in consultation with subject matter experts from industry and colleges operating in Pharmaceutical domain. The syllabus also offers electives to choose by considering different pharmaceutical products.

### Eligibility for Admission

The eligibility for admission to B. Voc. in Pharmaceutical Manufacturing shall be 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

B. Voc. in Pharmaceutical Manufacturing offers opportunities like *Health Inspector, Analytical Chemist, Research Officer, Chemical/Drug Technician, Drug Therapist, Data Manager, Drug Inspector, Hospital Drug Coordinator, Medical Transcriptionist, Regulatory Manager.*

## Semester-wise Listing of Courses

SEMESTER I		
Subject Code	Subject Name	Credits
GE 1.1	Functional English	4
GE 1.2	Communication Skills - I	4
GE 1.3	Computing Skills - I	4
PMPD 1.1	Pharmaceutical Dosage Forms - I	2
PMPT 1.2	Pharmaceutical Technology - I	2
PMLDFT 1.3	Liquid Dosage Forms and Technology	2
PMVP 1.5	Vocational Practical	12

SEMESTER II		
Subject Code	Subject Name	Credits
GE 2.1	Basics of Economics and Markets	4
GE 2.2	Environment Sciences	4
GE 2.3	Ethics and Governance	4
PMPD 2.1	Pharmaceutical Dosage Forms - II	2
PMPT 2.2	Pharmaceutical Technology - II	2
PMGMP 2.3	Good Manufacturing Practices - I	2
PMVP 2.6	Vocational Practical	12

SEMESTER III		
Subject Code	Subject Name	Credits
GE 3.1	Communication Skills - II	4
GE 3.2	Financial Literacy	4
GE 3.3	Basics of Legal and HR Policies	4
PMPM 3.1	Pharmaceutical Microbiology	2
PMPD 3.2	Pharmaceutical Dosage Form - III	2
PMPC 3.3	Pharmaceutical Chemistry - I	2
PMVP 3.6	Vocational Practical	12

SEMESTER IV		
Subject Code	Subject Name	Credits
GE 4.1	Computing Skills - II	2
GE 4.2	Basics of Accounting	4
GE 4.3	Design Thinking	4
GE 4.4	Organizational Behaviour	2
PMPT 4.1	Pharmaceutical Technology - III	2
PMPP 4.2	Pharmaceutical Packaging	2
PMQC 4.3	Quality Control - I	2
PMVP 4.6	Vocational Practical	12

SEMESTER V		
Subject Code	Subject Name	Credits
GE 5.1	Digital Literacy	4
GE 5.2	Health and Wellness	4
GE 5.3	Personal Grooming	4
PMPL 5.1	Pharmacology - I	2
PMGMP 5.2	Good Manufacturing Practices - II	2
PMERP 5.3	Enterprise Resource Planning and Documentation	2
PMVP 5.6	Vocational Practical	12

SEMESTER VI		
Subject Code	Subject Name	Credits
GE 6.1	Entrepreneurship	4
GE 6.2	Employment Readiness	4
GE 6.3	Effective Workplace Skills & Competencies	4
PMRA 6.1	Pharma Regulatory Affairs	2
PMPL 6.2	Pharmacology - II	2
PMQC 6.3	Quality Control - II	2
PMVP 6.6	Vocational Practical	12

**Programme fees:** (Rs. 36,000/-per annum)

**Examination fees:** (Rs. 1,600/- per semester and Rs.3200 per annum)

**Caution Deposit (Refundable):** Rs.5000

**Convocation Fees:** Rs.2000/- (In absentia Rs.2500/-)

**Campus Immersion Expenses:** (Travel & Logistics for 7-10 days on Campus) are not part of the fee structure and the expenses will have to be met by the students followed by communication.