

# 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

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	Subject Code	Subject Name	Credit
I	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	3
	PMPT 1.2	Pharmaceutical Technology I	3
	PMVP	Vocational Practical	12

	1.5		
<b>II</b>	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
<b>III</b>	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
<b>IV</b>	GE 4.1	Computing Skills – II	4
	GE 4.2	Basics of Accounting	4
	GE 4.3	Design Thinking	4
	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
<b>V</b>	GE 5.1	Digital Literacy	4
	GE 5.2	Health and Wellness	4
	GE 5.3	Personal Grooming	4
	PMPL	Pharmacology I	2

	5.1		
	PMGMP 5.2	Good Manufacturing Practices II	2
	PMERP 5.3	Enterprise Resource Planning and Documentation	2
	PMVP 5.6	Vocational Practical	13
<b>VI</b>	GE 6.1	Entrepreneurship	4
	GE 6.2	Employment Readiness	4
	GE 6.3	Effective Workplace Skills & Competencies	4
	PMpra 6.1	Pharma Regulatory Affairs	2
	PMPL 6.2	Pharmacology II	2
	PMQC 6.3	Quality Control II	2
	PMVP 6.6	Vocational Practical	13
	PMPIM E1	Purchase And Inventory Management	2
	PMPV E2	Pharmaceutical Validation	2
	PMPSM E3	Pharmaceutical Sales And Management	2

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

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

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