

# Life Sciences

## B. Voc. in Manufacturing Technology (Pharmaceutical Chemistry)

### 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 Pharmaceuticals domain.

### Eligibility for Admission

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

### Career Prospects/Job Roles

B. Voc. in Manufacturing Technology (Pharmaceutical Chemistry) 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
MTPC 1	Manufacturing Operations I – Size Reduction Techniques	2
MTPC 2	Applied Physics	2
MTPC 3	Applied Chemistry	2
MTPCP 1	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
MTPC 3.2	Applied Chemistry Part II and Basics of Total Productive Maintenance (TPM)	2
MTPC 1.1	Manufacturing Operations II	2
MTPC 5	Pharmaceutical Chemistry I	2
MTPCP 2	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
MTPC 1.2	Manufacturing Operations - III	2
MTPC 5.1	Pharmaceutical Chemistry - II	2
MTPC 5.2	Pharmaceutical Chemistry - III	2
MTPCP 3	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
MTPC 6.2	Project Management and Supply Chain Management: Introduction	2
MTPC 7.4	Pharmaceutical Chemistry IV and Pharmaceutical Analysis I	2
MTPC 1.3	Manufacturing Operations IV	2
MTPCP 4	Vocational Practical	12

SEMESTER V			SEMESTER VI		
Subject Code	Subject Name	Credits	Subject Code	Subject Name	Credits
GE 5.1	Digital Literacy	4	GE 6.1	Entrepreneurship	4
GE 5.2	Health and Wellness	4	GE 6.2	Employment Readiness	4
GE 5.3	Personal Grooming	4	GE 6.3	Effective Workplace Skills & Competencies	4
MTPC 1.4	Manufacturing Operations V	2	MTPC 1.5	Manufacturing Operations VI	2
MTPC 9.4	Enterprise Resource Planning and Environmental Sciences	2	MTPC 12.2	Good Engineering Practices and Engineering Drawing	2
MTPC 11	Supply Chain Management and Strategy	2	MTPC 13	International Regulatory Perspective of New Drug Development	2
MTPCP 5	Vocational Practical	12	MTPCP 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.