



Shri Vile Parle Kelavani Mandal's
INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Outcomes and its mapping with Program Outcomes
New Education Regulation 2020

F.Y. D. Pharmacy

Theory:

Course Name: C101: Pharmaceutics

After completion of this course, the students will be able to-

CO	Course Outcomes
C101.1	Describe about the different dosage forms and their formulation aspects (LL-2)
C101.2	Explain the advantages, disadvantages, and quality control tests of different dosage forms (LL-2)
C101.3	Discuss the importance of quality assurance and good manufacturing practices (LL-2)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C101.1	3	2	-	3	2	2	-	-	3
C101.2	3	2	-	3	2	2	-	-	3
C101.3	3	2	-	3	2	2	-	-	3
C101	3.0	2.0	-	3.0	2.0	2.0	-	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C102: Pharmaceutical Chemistry

After completion of this course, the students will be able to-

CO	Course Outcomes
C102.1	Describe the chemical class, structure and chemical name of the commonly used drugs and pharmaceuticals of both organic and inorganic nature. (LL- 2)
C102.2	Discuss the pharmacological uses, dosage regimen, stability issues and storage conditions of all such chemical substances commonly used as drugs. (LL-2)
C102.3	Describe the quantitative and qualitative analysis, impurity testing of the chemical substances given in the official monographs. (LL-1)
C102.4	Identify the dosage form & the brand names of the drugs and pharmaceuticals popular in the marketplace. (LL-3)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C102.1	3	2	-	2	-	2	-	-	3
C102.2	3	-	-	-	-	-	-	-	3
C102.3	3	3	-	-	-	-	-	-	3
C102.4	3	-	-	2	-	2	-	-	3
C102	3.0	2.5	-	2.0	-	2.0	-	-	3.0

Course Name: C103: Pharmacognosy

After completion of this course, the students will be able to-

CO	Course Outcomes
C103.1	Identify the important/common crude drugs of natural origin.(LL-2)
C103.2	Describe the uses of herbs in nutraceuticals and cosmeceuticals.(LL-2)
C103.3	Discuss the principles of alternative system of medicines.(LL-2)
C103.4	Describe the importance of quality control of drugs of natural origin.(LL-3)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C103.1	3	-	-	3	-	-	-	-	3
C103.2	3	2	-	3	-	3	-	-	3
C103.3	3	2	-	3	2	3	-	-	3
C103.4	3	2	-	3	2	3	-	-	3
C103	3.0	2.0	-	3.0	2.0	3.0	-	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C104: Human Anatomy and Physiology

After completion of this course, the students will be able to-

CO	Course Outcomes
C104.1	Describe the various organ systems of the human body. (LL-2)
C104.2	Discuss the anatomical features of the important human organs and tissues. (LL-2)
C104.3	Explain the homeostatic mechanisms regulating the normal physiology in the human system. (LL-2)
C104.4	Discuss the significance of various vital physiological parameters of the human body. (LL-2)

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C104.1	2	2	-	3	-	3	2	-	3
C104.2	2	2	-	3	-	3	2	-	3
C104.3	2	2	-	3	-	3	2	-	3
C104.4	2	2	-	3	-	3	2	-	3
C104	2.0	2.0	-	3.0	-	3.0	2.0	-	3.0

Course Name: C105: Social Pharmacy

After completion of this course, the students will be able to-

CO	Course Outcomes
C105.1	Discuss about roles of pharmacists in the various national health programs (LL-2)
C105.2	Describe various sources of health hazards and disease preventive measures (LL-2)
C105.3	Discuss the healthcare issues associated with food and nutritional substances. (LL-2)
C105.4	Describe the general roles and responsibilities of pharmacists in public health. (LL-3)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C105.1	3	-	3	3	3	3	3	-	3
C105.2	3	-	3	3	2	3	3	3	3
C105.3	3	-	3	3	2	3	3	3	3
C105.4	3	-	3	3	2	3	3	-	3
C105	3.0	-	3.0	3.0	2.3	3.0	3.0	3.0	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

(02562) 297802

www.svkm-iop.ac.in

1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

F.Y. D. Pharmacy:

Practicals

Course Name: C106: Pharmaceutics

After completion of this course, the students will be able to-

CO	Course Outcomes
C106.1	Calculate the working formula from the given master formula (LL-3)
C106.2	Formulate the dosage form and dispense in an appropriate container (LL-3)
C106.3	Design the label with the necessary product and patient information (LL-3)
C106.4	Perform the basic quality control tests for the common dosage forms (LL-3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C106.1	3	3	-	3	2	2	-	-	3
C106.2	3	3	2	3	2	2	2	-	3
C106.3	3	3	2	3	2	2	2	-	3
C106.4	3	3	2	3	2	2	2	-	3
C106	3.0	3.0	2.0	3.0	2.0	2.0	2.0	-	3.0

Course Name: C107: Pharmaceutical Chemistry

After completion of this course, the students will be able to-

CO	Course Outcomes
C107.1	Perform the limit tests for various inorganic elements and report. (LL- 3)
C107.2	Prepare standard solutions using the principles of volumetric analysis. (LL- 3)
C107.3	Test the purity of the selected inorganic and organic compounds against the monograph standards (LL- 3)
C107.4	Synthesize the selected chemical substances as per the standard synthetic scheme (LL- 3)
C107.5	Perform qualitative tests to systematically identify the unknown chemical substances (LL- 3)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C107.1	3	3	2	3	-	2	-	-	3
C107.2	3	3	2	3	-	2	-	-	3
C107.3	3	3	2	3	-	2	-	-	3
C107.4	3	3	2	3	-	2	-	-	3
C107.5	3	3	2	3	-	2	-	-	3
C107	3.0	3.0	2.0	3.0	-	2.0	-	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C108: Pharmacognosy

After completion of this course, the students will be able to-

CO	Course Outcomes
C108.1	Identify the given crude drugs based on the morphological characteristics. (LL-1)
C108.2	Take a transverse section of the given crude drugs. (LL-2)
C108.3	Describe the anatomical characteristics of the given crude drug under microscopical conditions. (LL-2)
C108.4	Carry out the physical and chemical tests to evaluate the given crude drugs. (LL-3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C108.1	3	3	-	3	-	2	-	-	3
C108.2	3	3	-	3	-	2	-	-	3
C108.3	3	3	-	3	-	2	-	-	3
C108.4	3	3	-	3	-	2	-	-	3
C108	3.0	3.0	-	3.0	-	2.0	-	-	3.0

Course Name: C109: Human Anatomy and Physiology

After completion of this course, the students will be able to-

CO	Course Outcomes
C109.1	Perform the haematological tests in human subjects and interpret the results (LL-3)
C109.2	Record, monitor and document the vital physiological parameters of human subjects and interpret the results (LL-3)
C109.3	Describe the anatomical features of the important human tissues under the microscopical conditions (LL-2)
C109.4	Discuss the significance of various anatomical and physiological characteristics of the human body (LL-2)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C109.1	3	2	-	3	3	2	-	-	3
C109.2	3	2	-	3	3	2	-	-	3
C109.3	3	2	-	3	2	2	-	-	3
C109.4	3	2	-	3	2	2	-	-	3
C109	3.0	2.0	-	3.0	2.5	2.0	-	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

(02562) 297802

www.svkm-iop.ac.in

1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C110: Social Pharmacy

After completion of this course, the students will be able to-

CO	Course Outcomes
C110.1	Describe the roles and responsibilities of pharmacists in various national health programs (LL 2)
C110.2	Design promotional materials for public health awareness (LL 3)
C110.3	Describe various health hazards including microbial sources (LL 2)
C110.4	Advice on preventive measures for various diseases (LL 3)
C110.5	Provide first aid for various emergency condition (LL 3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C110.1	3	-	3	3	3	3	3	3	3
C110.2	3	-	3	3	3	3	3	3	3
C110.3	3	-	3	3	3	3	3	2	3
C110.4	3	-	3	3	3	3	3	3	3
C110.5	3	-	3	3	3	3	3	-	3
C110	3.0	-	3.0	3.0	3.0	3.0	3.0	2.8	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

S.Y. D. Pharmacy

Theory:

Course Name: C201: Pharmacology

After completion of this course, the students will be able to-

CO	Course Outcomes
C201.1	Describe the basic concepts of pharmacokinetics and pharmacodynamics. (LL-2)
C201.2	Enlist the various classes and drugs of choices for any given disease condition. (LL-1)
C201.3	Advise the dosage regimen, route of administration and contraindications for a given drug. (LL-3)
C201.4	Describe the common adverse drug reactions. (LL-2)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C201.1	3	-	-	3	-	2	-	-	3
C201.2	3	-	-	3	2	-	2	-	3
C201.3	3	-	-	3	2	2	2	-	3
C201.4	3	-	-	3	2	2	2	-	3
C201	3.0	-	-	3.0	2.0	2.0	2.0	-	3.0

Course Name: C202: Community Pharmacy and Management

After completion of this course, the students will be able to-

CO	Course Outcomes
C202.1	Describe the establishment, legal requirements, and effective administration of a community pharmacy. (LL 2)
C202.2	Professionally handle prescriptions and dispense medications. (LL 2)
C202.3	Counsel patients about the disease, prescription and or non-prescription medicines. (LL 3)
C202.4	Perform basic health screening on patients and interpret the reports in the community pharmacy setting. (LL 3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO9
C202.1	3	3	2	3	3	3	3	-	3
C202.2	3	3	2	3	3	3	3	-	3
C202.3	3	-	2	3	3	3	3	-	3
C202.4	3	3	2	3	3	3	3	-	3
C202	3.0	3.0	2.0	3.0	3.0	3.0	3.0	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C203: Biochemistry and Clinical Pathology

After completion of this course, the students will be able to-

CO	Course Outcomes
C203.1	Describe the functions of biomolecules (LL-2)
C203.2	Discuss the various functions of enzymes in the human system (LL-2)
C203.3	Explain the metabolic pathways of biomolecules in both physiological and pathological conditions (LL-3)
C203.4	Describe the principles of organ function tests and their clinical significances. (LL-2)
C203.5	Determine the biomolecules / metabolites in the given biological samples, both qualitatively and quantitatively (LL-3)
C203.6	Describe the clinical pathology of blood and urine (LL-2)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C203.1	3	-	-	3	-	2	2	-	3
C203.2	3	-	-	3	-	2	-	-	3
C203.3	3	3	-	3	-	2	3	-	3
C203.4	3	3	-	3	3	2	3	-	3
C203.5	3	3	-	3	3	2	3	-	3
C203.6	3	3	-	3	3	2	3	-	3
C203	3.0	3.0	-	3.0	3.0	2.0	2.8	-	3.0

Course Name: C204: Pharmacotherapeutics

After completion of this course, the students will be able to-

CO	Course Outcomes
C204.1	Help assessing the subjective and objective parameters of patients in common disease conditions (LL-2)
C204.2	Assist other healthcare providers to analyse drug related problems and provide therapeutic interventions (LL-3)
C204.3	Participate in planning the rational medicine therapy for common diseases (LL-3)
C204.4	Design and deliver discharge counselling for patients (LL-3)

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C204.1	3	3	-	3	-	3	3	-	3
C204.2	3	-	2	3	2	3	3	-	3
C204.3	3	2	2	3	2	3	3	-	3
C204.4	3	3	2	3	2	3	3	-	3
C204	3.0	2.7	2.0	3.0	2.0	3.0	3.0	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C205: Hospital and Clinical Pharmacy

After completion of this course, the students will be able to-

CO	Course Outcomes
C205.1	Explain the basic concepts of hospital pharmacy administration. (LL-3)
C205.2	Choose an effective method for drug supply chain and inventory control procedures within the hospital. (LL-3)
C205.3	Assist the other healthcare providers in monitoring drug therapy and address drug related problems. (LL-3)
C205.4	Interpret common lab investigation reports for optimizing drug therapy. (LL-2)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C205.1	3	3	3	3	3	3	2	-	3
C205.2	3	3	3	3	3	3	3	-	3
C205.3	3	-	3	3	3	3	3	-	3
C205.4	3	-	-	3	3	3	3	-	3
C205	3.0	3.0	3.0	3.0	3.0	3.0	2.8	-	3.0

Course Name: C206: Pharmacy Law and Ethics

After completion of this course, the students will be able to-

CO	Course Outcomes
C206.1	Describe the history and evolution of pharmacy law in India (LL-2)
C206.2	Interpret the act and rules regulating the profession and practice of pharmacy in India (LL-2)
C206.3	Discuss the various codes of ethics related to practice standards in pharmacy (LL-2)
C206.4	Interpret the fundamentals of patent laws from the perspectives of pharmacy (LL-2)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C206.1	3	-	3	3	3	3	2	-	3
C206.2	3	-	3	3	3	3	2	-	3
C206.3	3	-	3	3	3	3	2	3	3
C206.4	3	-	3	3	3	3	2	-	3
C206	3.0	-	3.0	3.0	3.0	3.0	2.0	3.0	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Practicals:

Course Name: C207: Pharmacology

After completion of this course, the students will be able to-

CO	Course Outcomes
C207.1	Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye (LL-2)
C207.2	Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report (LL-2)
C207.3	Predict the effects of given tissues (simulated) on isolated organs / tissues and interpret the results (LL-2)
C207.4	Interpret the dose dependent responses of drugs in various animal experiment models (LL-2)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C207.1	3	3	-	3	3	-	-	2	3
C207.2	3	3	-	3	3	-	-	2	3
C207.3	3	3	-	3	3	-	-	2	3
C207.4	3	3	-	3	3	-	-	2	3
C207	3.0	3.0	-	3.0	3.0	-	-	2.0	3.0

Course Name: C208: Community Pharmacy and Management

After completion of this course, the students will be able to-

CO	Course Outcomes
C208.1	Handle and fill prescriptions in a professional manner. (LL 3)
C208.2	Counsel patients on various diseases and minor ailments. (LL 3)
C208.3	Counsel patients on prescription and or non-prescription drugs. (LL 3)
C208.4	Design and prepare patient information leaflets. (LL 3)
C208.5	Perform basic health screening tests. (LL 3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C208.1	3	2	-	3	-	3	3	-	3
C208.2	3	3	-	3	2	3	2	-	3
C208.3	3	2	-	3	2	3	2	-	3
C208.4	3	2	-	3	2	3	3	-	3
C208.5	3	3	-	3	2	3	2	-	3
C208	3.0	2.4	-	3.0	2.0	3.0	2.4	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C209: Biochemistry and Clinical Pathology

After completion of this course, the students will be able to-

CO	Course Outcomes
C209.1	Qualitatively determine the biomolecules / metabolites in the given biological samples (LL-3)
C209.2	Determine the normal and abnormal constituents in blood and urine samples and interpret the results of such testing. (LL-3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C209.1	3	3	3	3	-	2	-	2	3
C209.2	3	3	3	3	-	2	-	2	3
C209	3.0	3.0	3.0	3.0	-	2.0	-	2.0	3.0

Course Name: C210: Pharmacotherapeutics

After completion of this course, the students will be able to-

CO	Course Outcomes
C210.1	Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases. (LL-3)
C210.2	Counsel the patients about the disease conditions, uses of drugs, methods of handling and administration of drugs, life-style modifications, and monitoring parameters. (LL-3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C210.1	3	-	-	3	2	3	2	-	3
C210.2	3	3	-	3	2	3	3	-	3
C210	3.0	3.0	-	3.0	2.0	3.0	2.5	-	3.0



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF PHARMACY (DIPLOMA), DHULE

Approved by PCI New Delhi, DTE & Govt. of Maharashtra | Affiliated to MSBTE, Mumbai

☎ (02562) 297802

🌐 www.svkm-iop.ac.in

✉ 1926principal@msbte.com



DTE CODE 5448

MSBTE CODE 1926

Course Name: C211: Hospital and Clinical Pharmacy

After completion of this course, the students will be able to-

CO	Course Outcomes
C211.1	Professionally handle and answer the drug information queries (LL-3)
C211.2	Interpret the common laboratory reports (LL-3)
C211.3	Report suspected adverse drug reactions using standard procedures (LL-3)
C211.4	Understand the uses and methods of handling various medical/surgical aids and devices (LL-2)
C211.5	Interpret and report the drug-drug interactions in common diseases for optimizing the drug therapy (LL-3)

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C211.1	3	3	3	3	3	3	3	-	3
C211.2	3	-	-	3	-	3	2	-	3
C211.3	3	3	3	3	-	3	3	-	3
C211.4	3	3	3	3	-	3	3	-	3
C211.5	3	3	2	3	-	3	3	-	3
C211	3.0	3.0	2.8	3.0	3.0	3.0	2.8	-	3.0

Dr. Sameer N. Goyal

Principal
SVKM's Institute of Pharmacy
(Diploma) Dhule