SARDAR PATEL UNIVERSITY
MASTER IN PHARMACY (M. PHARM.)
SECOND SEMESTER
MPH-515: INDUSTRIAL PHARMACY

THEORY: (3 hours per week)

1. Preparation of Qualitative and Quantitative flow sheets of two pharmacopoeial formulations of each of the following: Solutions, Elixir, Syrups, Suspensions, Emulsions, tablets, coated tablets, capsules, ointments, creams and injections.

2. Detailed Study of the equipments required in the manufacture of different dosage forms as per the latest requirements of schedule-M of Drugs and Cosmetic Rules.

3. Equipment layouts for the manufacturing departments for each dosage form as per the latest requirements of schedule-M of Drugs and Cosmetic Rules.

4. Pharmaceutical factory planning and layout - Utilities- Service facilities - Personal facilities, etc.

5. Quality assurance and In Process Controls.

6. Production Planning and controls.


8. Design and development of packaging units including recent advances in packaging techniques for various types of sterile and non- sterile dosage forms. Stability aspects of packaging.


PRACTICALS: (4 hours per week) Practical should be based on theory.

BOOKS RECOMMENDED:

1. Remington’s Pharmaceutical Sciences.

2. Lachman - Theory and Practice of Industrial Pharmacy.


5. Cooper & Gunn’s Tutorial Pharmacy.


7. Vibrant and Dryden — Chemical Engineering Plant Design

8. OPPI — Quality Assurance