THEORY: (3 hours per week)

1. Recent Advances in Tablet Technology
2. Recent Advances in Parenteral Drug Technology
3. Process Automation in Pharmaceutical Manufacturing
4. Packing materials, packing methods for tablets, capsules, injections, disposable sterile packages, bulk packing including carton design.
5. Production Control and applications of Radio Pharmaceuticals
6. Good Manufacturing practices and Documentation
7. Pilot plant Scale-up Techniques.
8. Optimization techniques in pharmaceutical formulation and processing: Optimization parameters, Classical optimization, Statistical design and applied optimization methods.
9. Biostatistics: Mean, Median and Mode, Standard deviation and coefficient of variation; Student t-test; ANOVA Chi-square test; Probability, Frequency distribution and regression analysis.

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

BOOKS RECOMMENDED:

5. Modern Pharmaceutics by Banker & Rhodes.