

Gujarat Technological University
Master of Pharmacy
Semester – II
Paper code -2920102
Specialization paper - III
Novel Drug Delivery System Part-I
Theory
(Six hours per week, 7 credits)

1. Recent Innovations in Conventional Dosage Forms – including site specific and time release modulation.

e.g.: Tablets: Osmotic, Colon target, Gastro-retentive, Buccal, and Sublingual.
Capsules: Modified release,
Semi-solids:
Parenterals:
Powders: Particle coating, Taste-masking,
Liquids:
2. Packaging components and its evaluation: factors affecting selection, Types and classification, Primary and secondary and regulatory aspects. Contribution in stability of the dosage forms.

Subject of Specialization paper - III
Novel Drug Delivery System Part-I
Practical
(Six hours per week, 8 credits)

Laboratory examination including oral and practical examination in general course illustrative of theory section in the syllabus.

References Books:

1. **Remingtons** “Pharmaceutical Sciences” 19th edition.
2. **Lachman** “The theory and Practice of Industrial Pharmacy” 3rd edition.
3. **Pharmaceutics** “The Science of Dosage form design” by **Aulton**
4. **Pharmaceutical dispensing** by **Husa**.
5. **Modern pharmaceutics** by **G. S. Banker**.
6. **Encyclopedia of pharmaceutical technology** Volumes: 1 to 19.
7. **Pharmaceutical dissolution testing** by **Banaker**.
8. **United States Pharmacopeia**.
9. **Drug stability (Principles and Practices)** by **Jens. T. Carstensen**.