

Gujarat Technological University
Master of Pharmacy
Semester – II

Specialization paper - III
Novel Drug Delivery System Part-I
Theory
(Four hours per week, 6 credits)

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

e.g. : Tablets : Osmotic, Colon target, Gastro-retentive, Buccal, 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
(Four hours per week, 6 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**.