

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm

SEMESTER: VIII

Subject Name: Current advances in Novel Drug Delivery Systems**Subject Code: 2280016**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	Theory		Practical	
				External	Internal	External	Internal
3	0	0	3	80	20	0	0

No	Course Content	Hrs
	Basics, polymers/excipients used, Formulation, Innovations, Evaluation of	
1.	Vesicular drug delivery system like liposomes, niosomes etc.	7
2.	Multi unit drug delivery systems like microspheres, microcapsules, pellets, beads, minitabets etc.	7
3.	Transdermal drug delivery systems, sonophoresis, iontophoresis	9
4.	Mucoadhesive films, patches, diskette, strips	5
5.	Nanoparticulate drug delivery system	7
6.	Self emulsifying drug delivery system	7
7.	In situ gels	3

References Books:

1. Lachman L., Liberman H. A., Kanig J. L., The theory and practise of industrial
2. pharmacy. 2nd Edition 1991, Varghese publishing house,
3. Remington:the science and practice of pharmacy.
4. James Swarbrick, James C. Boylan, Encyclopedia of Pharmaceutical Technology, Marcel Dekker.
5. G.S.Banker, Modern Pharmaceutics.
6. Robinson & Lee, Controlled Drug Delivery: Fundamentals and applications.
7. Y. W. Chein, Novel drug delivery systems.
8. N.K. Jain and others, Novel drug delivery system.
9. R. K. Khar and others, Novel drug delivery system.
10. Current updates/ articles available from web resources.