



BENGAL SCHOOL OF TECHNOLOGY

AUTONOMOUS

Estd. by Supreme Educational Development and Charitable Organization (SEDCO)

Recognised by UGC & included u/s 2(f) of UGC Act 1956

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) &

West Bengal State Council of Technical and Vocational Education and Skill Development (WBST&VE&SD)

Accredited by NAAC with "A" Grade, NBA for B. Pharm & QCI

Lesson Plan

Class: 4th year 7th Semester.

Session: 2026-27

Date of Commencement of Session: 30.07.2026

Subject Name: Novel Drug Delivery System

Subject code: PT716B

Faculty In charge: Mrs. Trisha Chatterjee

Schedule of allotted class work (w.e.f)

Days	Monday	Tuesday	Wednesday	Thursday	Friday
Time/period Section A					9:40-10:40 AM
Section B					10:40-11:40

Available Periods/week _____ 2 _____ Available periods in the total semester _____ 26 _____ Extra Classes _____

Guest Lectures planned if any with justification _____ N.A _____

Scope & Objective of the course: This subject is designed to impart basic knowledge on the area of novel drug delivery systems.

Objectives: Upon completion of the course student shall be able

1. To understand various approaches for development of novel drug delivery systems.
2. To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation

Reading materials:

A. Text Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1.	Novel Drug Delivery Systems	Y W. Chien	2 nd	Marcel Dekker, Inc., New York	1166	14C
2.	Controlled and Novel Drug Delivery	N.K. Jain	1 st	CBS Publishers & Distributors,	6997	13E
3.	Controlled Drug Delivery - concepts and advances	S.P. Vyas and R.K. Khar	1 st	Vallabh Prakashan	6836	13G

B. Reference Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No

C. Journals / Website/Any other resources

Sl. No.	Name of the journal (s)/website/others	Source	Vol. no.	Month & Year

Daily Teaching Schedule for UNIT-I

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources

Daily Teaching Schedule for UNIT-II

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
1.	31.07.2026	Friday	Introduction to NDDS Microencapsulation: Definition, advantages and disadvantages, Microspheres, /microcapsules, microparticles	Chalk Duster in Black board, PPT presentation	A1,A2,A3
2	07.08.2026	Friday	Methods of microencapsulation, applications	Chalk Duster in Black board, PPT presentation	A1,A2,A3
3	14.08.2026	Friday	Methods of microencapsulation, applications	Chalk Duster in Black board, PPT presentation	A1,A2,A3
4	21.08.2026	Friday	Mucosal Drug Delivery system Principles of bioadhesion /mucoadhesion, concepts, advantages and disadvantages	Chalk Duster in Black board, PPT presentation	A1,A2,A3
5	11.09.2026	Friday	Mucosal Drug Delivery system Principles of bioadhesion /mucoadhesion, concepts, advantages and disadvantages	Chalk Duster in Black board, PPT presentation	A1,A2,A3
6	18.09.2026	Friday	Transmucosal permeability and formulation considerations of buccal delivery system	Chalk Duster in Black board, PPT presentation	A1,A2,A3
7	25.09.2026	Friday	Implantable Drug Delivery Systems: Introduction, advantages and disadvantages	Chalk Duster in Black board, PPT presentation	A1,A2,A3
8	09.10.2026	Friday	Implantable Drug Delivery Systems: Introduction, advantages and disadvantages	Chalk Duster in Black board, PPT presentation	A1,A2,A3
9	30.10.2026	Friday	Concept of implants and osmotic pump	Chalk Duster in Black board, PPT presentation	A1,A2,A3
10	06.11.2026	Friday	Concept of implants and osmotic pump	Chalk Duster in Black board, PPT presentation	A1,A2,A3

Daily Teaching Schedule for UNIT-III

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources

Daily Teaching Schedule for UNIT-IV

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
11	13.11.2026	Friday	Targeted drug Delivery: Concepts and approaches advantages and disadvantages, introduction to nanoparticles, monoclonal antibodies and their applications	Chalk Duster in Black board, PPT presentation	A1,A2,A3
12	20.11.2026	Friday	Targeted drug Delivery: Concepts and approaches advantages and disadvantages, introduction to nanoparticles, monoclonal antibodies and their applications	Chalk Duster in Black board, PPT presentation	A1,A2,A3
13	27.11.2026	Friday	Targeted drug Delivery: Concepts and approaches advantages and disadvantages, introduction to nanoparticles, monoclonal antibodies and their applications	Chalk Duster in Black board, PPT presentation	A1,A2,A3

Daily Teaching Schedule for UNIT-V

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
Grand total number of classes planned for the semester: 13					

Daily Teaching Schedule for Practical

Sl. No.	Date	Day	Title to be covered
			N.A

