

Yashoda Shikshan Prasarak Mandal's
YASHODA TECHNICAL CAMPUS, SATARA
Faculty of Pharmacy (B Pharmacy)
ACADEMIC PLANNING

Name of Department: Pharmaceutics

Class: M. Pharm (Sem-I)

Subject: DDS

Academic Year: 2024-25

Total no. of Lectures: 60

Name of the faculty: Mr. A.B.Velhal

Validated By:

Reference Code:

Code	Author/ Editor	Title
A.	N.K. Jain	Controlled and Novel Drug Delivery, CBS Publishers
B.	S.P.Vyas and R.K.Khar	Controlled Drug Delivery - concepts and advances, Vallabh Prakashan
C.	Dekker, Inc.,	Novel Drug Delivery Systems, 2nd edition
D.	K.D. Tripathi	Pharmacology

L. No.	Main Topic	Subtopic	Reference
L1	Unit-I Targeted Drug Delivery Systems	Scope and objectives of Subject	A,B,
L2		Intro of Targeted Drug Delivery Systems	A,B, C,
L3		Concepts from TDDS	A,B, D,
L4		Events in TDDS	A, B, D,.
L5		biological process involved in drug targeting	A,B,
L6		Advantages & Disadv of TDDS	A,B, C,
L7		Carrier or markers :	A,B, C,
L8		Strategies of drug targeting	A,B, D,
L9		Types of targeted drug delivery system	A,B, D

L10		Approaches to Drug Targeting	A,B,E.
L11		Brain Drug delivery system	A,B, C,
L12		Tumor targeting	A,B, D,
L13	Unit-II Targeting Methods	introduction	A,B,E.
L14		Nano Particles :- Intro, basics	A,B,.
L15		Types of Nano particles	A,B,.
L16		Preparation methods	A,B, C,.
L17		Evaluation of Nano Particles	A,B,.
L18		Liposomes: Intro, basics	A,B, D,
L19		Structure of liposome	A,B,
L20		Lipid used in liposomes, characteristics.	A,B,E.
L21		Ideal characters, Considerations	A,B,
L22		Preparation methods	A,B,.
L23		Evaluation of Liposomes	A,B,E.
L24		Evaluation of Liposomes	A,B, D,
L25	Unit -III Micro Capsules / Micro Spheres	Introduction of Microcapsules	A,B,
L26		Types, preparation and evaluation	A,B,
L27		Monoclonal Antibodies	A,B,.
L28		preparation and application of it	A,B, C,
L29		preparation of Niosomes	A,B,

L30		and application of Niosomes	A,B.
L31		Preparation of Aquasomes,	A,B,.
L32		Application of Aquasomes,.	A,B,.
L33		preparation and application of Phytosomes,	A,B,.
L34		preparation and application of Electrosomes	A,B,
L35		preparation and application of Niosomes	A,B.
L36		Diffrencece between Niosomes, Aquasomes, Electrosomes	A,B,
L37	Unit –IV Pulmonary Drug Delivery Systems	Introduction Pulmonary Drug Delivery Systems	A,B,.
L38		Anatomy and physiology of lungs	A,B,E.
L39		Factors affecting pulmonary drug delivery	A,B,
L40		Advantages & Disadvantages of pulmonary drug delivery	A,B,
L41		challenges in pulmonary drug delivery	A,B,
L42		AEROSOLS- Intro, Basics	A,B,
L43		Aerosols- propellants,	A,B,
L44		Containers Types in Aerosols	A,B,
L45		preparation and evaluation of Aerosols	A,B,
L46		Intra Nasal Route Delivery systems; Types,	A,B,C
L47		preparation and evaluation of it	A,B,C
L48		Introduction	A,B,C

L49	Unit-V Veterinary Drug Delivery Systems	Significant difference in VDDS	A,B,C
L50		advantages and disadvantages of various routes in VDDS	A,B,C
L51		GMP guidelines for veterinary	A,B,C
L52		veterinary dosage forms	A,B,C
L53		Types of dosage forms	A,B,C
L54		Tablets and bolus,	A,B,C
L55		Feed additives,	A,B,C
L56		Drinking water medication,	A,B,C
L57		Oral paste and gels,	A,B,C
L58		Drenchers and	A,B,C
L59		Tubing product	A,B,C
L60		Newer technologies in VDDS	A,B,C

Particulars	Subject Teacher	HOD and Academic in-charge
Name	Mr. A.B.Velhal	Dr. V.J.Chaware
Signature		
Remarks		

