

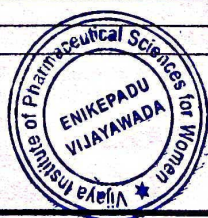
VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V. S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-A)

Designation: Asst.Prof

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	UNIT-I: Biopharmaceutics: introduction to biopharmaceutics and pharmacokinetics	26-04-2021	26-4-21	1	1	
2	Absorption: mechanisms of drug absorption- passive diffusion	27-04-2021	27-4-21	1	1	
3	ion pair and pore transport, Facilitated diffusion, carrier mediated	28-04-2021	28-4-21	1	1	
4	Active transport, endocytosis	29-04-2021	29-4-21	1	1	
5	Factors influencing absorption- physicochemical factors-solubility	30-04-2021	30-4-21	1	1	
6	Theories of dissolution,particle size, polymorphism,salt form of drug	03-05-2021	3-5-21	1	1	
7	pKa of the drug and lipophilicity of the drug, pH partition theory	04-05-2021	4-5-21	1	1	
8	Pharmaceutical factors- Dosage form factors	05-05-2021	5-5-21	1	1	
9	Physiological factors-gastric emptying, GI pH, transit time	06-05-2021	6-5-21	1	1	
10	Disease state and others	07-05-2021	7-5-21	1	1	
11	Absorption of drug from non per oral ev route	10-05-2021	10-5-21	1	1	
12	Distribution: drug distribution in the body, Steps in drug distribution	11-05-2021	11-5-21	1	1	
13	Factors influencing distribution of drugs- tissue permeability of drugs	12-05-2021	12-5-21	1	1	
14	Physiological barriers affecting drug distribution	13-05-2021	13-5-21	1	1	
15	Apparent Volume of drug distribution	15-05-2021	15-5-21	1	1	
16	Plasma protein binding mechanisms	17-05-2021	17-5-21	1	1	
17	Binding of drugs to blood components	18-05-2021	18-5-21	1	1	
18	Tissue binding of drugs	19-05-2021	19-5-21	1	1	

A.V.S. Himabindu 24/4/21
Prepared: Faculty / Date

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ENIKEPATU VIJAYAWADA

VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / III


Name of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-A)

Designation: Asst.Prof

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
19	Factors affecting protein drug binding	20-05-2021	20-5-21	1	1	
20	Clinical Significance & kinetics of protein binding	21-05-2021	21-5-21	1	1	
21	UNIT-II: Elimination: Drug metabolism	22-05-2021	22-5-21	1	1	
22	Metabolic pathways renal excretion of drugs	24-05-2021	24-5-21	1	1	
23	Factors affecting renal excretion of drugs	25-05-2021	25-5-21	1	1	
24	Renal clearance, Non renal routes of drug excretion of drugs	26-05-2021	26-5-21	1	1	
25	Bioavailability & bioequivalence: objectives of bioavailability, absolute & relative bioavailability	27-05-2021	27-5-21	1	1	
26	Measurement of bioavailability	28-05-2021	28-5-21	1	1	
27	<i>In vitro</i> dissolution models	29-05-2021	29-5-21	1	1	
28	Bioequivalence studies- objectives, types	31-05-2021	31-5-21	1	1	
29	Bioequivalence study designs	01-06-2021	1-6-21	1	1	
30	Methods to enhance the dissolution rate and bioavailability of poorly soluble drugs	02-06-2021	2-6-21	1	1	

A.V.S. Himabindu 24/4/21
Prepared: Faculty / Date



Verified:  Date
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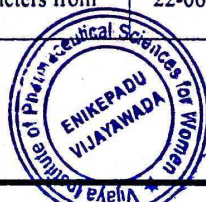
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TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-A)

Designation: Asst.Prof

Sl.No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
31	<u>UNIT-III: Pharmacokinetics: introduction to pharmacokinetics</u>	03-06-2021	3-6-21	1	1	
32	significance of plasma drug concentration measurement	04-06-2021	4-6-21	1	1	
33	Compartment models	05-06-2021	5-6-21	1	1	
34	mammillary & catenary models	07-06-2021	7-6-21	1	1	
35	non compartment models	08-06-2021	8-6-21	1	1	
36	Physiological models	09-06-2021	9-6-21	1	1	
37	Rate, rate constants & order of reactions, zero order rate constant First order rate constant	10-06-2021	10-6-21	1	1	
38	One compartment open model(IV bolus administration)	11-06-2021	11-6-21	1	1	
39	One compartment open model-IV infusion	14-06-2021	14-6-21	1	1	
40	One compartment open model-extravascular administration	15-06-2021	15-6-21	1	1	
41	Curve fitting(method of residuals) regression procedures	16-06-2021	16-6-21	1	1	
42	Wagner-nelson method for estimation of ka	17-06-2021	17-6-21	1	1	
43	Distribution coefficient	18-06-2021	18-6-21	1	1	
44	Determination of pharmacokinetic parameters from plasma data	19-06-2021	19-6-21	1	1	
45	Determination of pharmacokinetic parameters from urine data	22-06-2021	22-6-21	1	1	

A.V.S. Himabindu 24/4/21
Prepared: Faculty / Date

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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-A)

Designation: Asst.Prof

Sl.No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
46	Concept of clearance, mechanism, clearance ratio, determination of renal clearance	23-06-2021	23-6-21	1	1	
47	UNIT-IV: Multicompartment models: Introduction	24-06-2021	24-6-21	1	1	
48	Two compartment open model IV bolus drug administration	25-06-2021	25-6-21	1	1	
49	Two compartment open model EV drug administration	26-06-2021	26-6-21	1	1	
50	Loo- Reigalman method of estimating Ka	28-06-2021	28-6-21	1	1	
51	Kinetics of multiple dosing	29-06-2021	29-6-21	1	1	
52	Steady state drug levels	30-06-2021	30-6-21	1	1	
53	Calculation of loading and maintenance doses	01-07-2021	1-7-21	1	1	
54	Significance in clinical setting	02-07-2021	2-7-21	1	1	
55	UNIT-V: Non-linear Pharmacokinetics: Introduction	03-07-2021	3-7-21	1	1	
56	Causes of non linearity	05-07-2021	5-7-21	1	1	
57	Detection of non linearity	06-07-2021	6-7-21	1	1	
58	Michales menten equation	07-07-2021	7-7-21	1	1	
59	Estimation of pharmacokinetic parameters	08-07-2021	8-7-21	1	1	
60	Explanation with example of drugs	09-07-2021	9-7-21	1	1	

I & II MID EXAMINATIONS (02-08-2021 to 07-08-2021)

A.V.S. Himabindu 24/4/21
Prepared: Faculty / Date

Principal
Date
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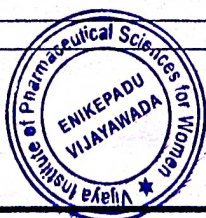
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TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V. S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-B)

Designation: Asst.Prof

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	UNIT-I: Biopharmaceutics: introduction to biopharmaceutics and pharmacokinetics	26-04-2021	26-4-21	1	1	
2	Absorption: mechanisms of drug absorption- passive diffusion	27-04-2021	27-4-21	1	1	
3	ion pair and pore transport, Facilitated diffusion, carrier mediated	28-04-2021	28-4-21	1	1	
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A.V.S. Himabindu
Prepared: Faculty / Date 24/4/21

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TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / III


Name of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-B)

Designation: Asst.Prof

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
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A.V.S. Himabindu
Prepared: Faculty / Date 24/4/21




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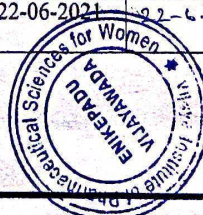
VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-B)

Designation: Asst.Prof

Sl.No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
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45	Determination of pharmacokinetic parameters from urine data	22-06-2021	22-6-21	1	1	

A.V.S. Himabindu
Prepared: Faculty / Date 24/4/21

 PRINCIPAL Date
 VIJAYA INSTITUTE OF
 PHARMACEUTICAL SCIENCES FOR WOMEN

VIPW/7.5/1/RC04

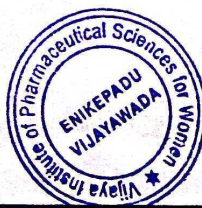
TEACHING PLAN CUM REALIZATION


Department: B. Pharmacy
Semester/ year: II / IIIName of the faculty: A.V.S. Himabindu
Name of the subject: Biopharmaceutics and Pharmacokinetics (SEC-B)

Designation: Asst.Prof

Sl.No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
46	Concept of clearance, mechanism, clearance ratio, determination of renal clearance	23-06-2021	23-6-21	1	1	
47	UNIT-IV: Multicompartment models: Introduction	24-06-2021	24-6-21	1	1	
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59	Estimation of pharmacokinetic parameters	08-07-2021	8-7-21	1	1	
60	Explanation with example of drugs	09-07-2021	9-7-21	1	1	

I & II MID EXAMINATIONS (02-08-2021 to 07-08-2021)

A.V.S. Himabindu
Prepared: Faculty / Date 24/4/21

Verified:  / Date
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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: Dr. S. Sundar

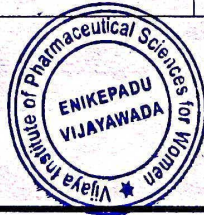
Designation: Associate Professor

Semester/year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	<u>Unit- I</u> Introduction	17-08-2020	17/8/20	1	1	
2	Science of Microbiology	18-08-2020	18/8/20	1	1	
3	Role of scientist in microbiology	19-08-2020	19/8/20	1	1	
4	Three domain classification of microorganisms	20-08-2020	20/8/20	1	1	
5	Whitaker classification of microorganisms	24-08-2020	24/8/20	1	1	
6	Major divisions of microbial world	25-08-2020	25/8/20	1	1	
7	Relationship among the different microorganisms	26-08-2020	26/8/20	1	1	
8	<u>Unit- II</u> Different methods of classification of microorganisms	27-08-2020	27/8/20	1	1	
9	Classification of bacteria	31-08-2020	31/8/20	1	1	
10	Fungi	01-09-2020	1/9/20	1	1	
11	Virus	02-09-2020	2/9/20	1	1	
12	Rickettsiae	03-09-2020	3/9/20	1	1	
13	Spirochetes	07-09-2020	7/9/20	1	1	

S. Sundar
Prepared: Faculty / Date



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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: Dr. S. Sundar

Designation: Associate Professor

Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
14	<u>Unit- III</u> Nutritional requirements of bacteria	08-09-2020	8/9/20	1	1	
15	Bacterial growth curve	09-09-2020	9/9/20	1	1	
16	Cultivation of bacteria	10-09-2020	10/9/20	1	1	
17	Growth and cultivation of virus	18-09-2020	18/9/20	1	1	
18	Classification of culture mediums	14-09-2020	14/9/20	1	1	
19	Media for aerobic and anaerobic bacteria	15-09-2020	15/9/20	1	1	
20	Culture media for fungi	16-09-2020	16/9/20	1	1	
21	Differential media, Enriched media	17-09-2020	17/9/20	1	1	
22	Selective media	21-09-2020	21/9/20	1	1	
23	Maintenance of lab culture	22-09-2020	22/9/20	1	1	
24	<u>Unit- IV</u> Different methods used in isolation of bacteria	23-09-2020	23/9/20	1	1	
25	Different methods used in identification of bacteria.	28-09-2020	28/9/20	1	1	
26	Different staining techniques	29-09-2020	29/9/20	1	1	
27	Biochemical reactions	01-10-2020	1/10/20	1	1	
28	Counting of bacteria- Total and viable counting techniques	05-10-2020	5/10/20	1	1	

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Department: Pharmacy

Name of the faculty: Dr. S. Sundar

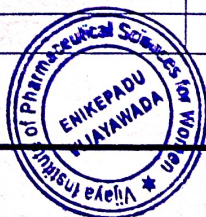
Designation: Associate Professor

Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
29	<u>Unit- V</u> Sterilization methods	06-10-2020	6/10/20	1	1	
30	Autoclave	07-10-2020	7/10/20	1	1	
31	Hot air oven	12-10-2020	13/10/20	1	1	
32	Filtration	13-10-2020	13/10/20	1	1	
33	Radiation	14-10-2020	14/10/20	1	1	
I MID EXAMINATIONS FROM (26.10.2020 TO 31.10.2020)						
34	Chemical methods of sterilization	02-11-2020	2/11/20	1	1	
35	Sterilization methods of all pharmaceutical products	03-11-2020	3/11/20	1	1	
36	<u>Unit- VI</u> Sterility testing of pharmaceutical products	04-11-2020	4/11/20	1	1	
37	Validation of sterilization methods	05-11-2020	5/11/20	1	1	
38	Study of Disinfectants.	09-11-2020	9/11/20	1	1	
39	Study of antiseptics	10-11-2020	10/11/20	1	1	
40	Study of virucidal	11-11-2020	11/11/20	1	1	
41	Study of virucidal	16-11-2020	16/11/20	1	1	
42	Study of fungicidal	17-11-2020	17/11/20	1	1	
43	Factors affecting antiseptics	18-11-2020	18/11/20	1	1	
44	Factors affecting disinfectants	23-11-2020	23/11/20	1	1	

S. Sundar
Prepared: Faculty / Date



S. Sundar
Verified: H.O.D. / Date
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Department: Pharmacy

Name of the faculty: Dr. S. Sundar

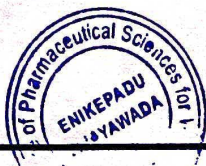
Designation: Associate Professor

Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
45	Mechanism of action	24-11-2020	24/11/20	1	1	
46	Evaluation of bactericidal activity	25-11-2020	25/11/20	1	1	
47	<u>Unit- VII</u> Evaluation of bacteriostatic activity	30-11-2020	30/11/20	1	1	
48	Evaluation of virucidal activity	01-12-2020	1/12/20	1	1	
49	Evaluation of preservatives in pharmaceutical preparations	02-12-2020	2/12/20	1	1	
50	Introduction of Immunity	03-12-2020	3/12/20	1	1	
51	Immune system	07-12-2020	7/12/20	1	1	
52	Classification of immunity	08-12-2020	8/12/20	1	1	
53	Active immunity and passive immunity	09-12-2020	9/12/20	1	1	
54	General principle of natural immunity	14-12-2020	14/12/20	1	1	
55	General principle of phagocytosis	15-12-2020	15/12/20	1	1	
56	General principle of acquires immunity (active immunity)	16-12-2020	16/12/20	1	1	
57	General principle of acquires immunity (passive immunity)	21-12-2020	21/12/20	1	1	
58	Chemical nature of antigen	22-12-2020	22/12/20	1	1	

S. Sundar
Prepared: Faculty / Date



S. Sundar
Verified: HOD / Date
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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: Dr. S. Sundar

Designation: Associate Professor

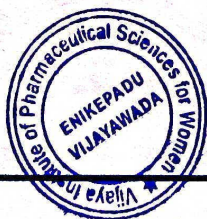
Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
59	Structure and formation of antibodies	23-12-2020	23/12/20	1	1	
60	Antigen and antibody reactions	28-12-2020	28/12/20	1	1	
61	Antigen and antibody reactions	29-12-2020	29/12/20	1	1	
62	<u>Unit- VIII</u> Bacterial exotoxins	30-12-2020	30/12/20	1	1	
63	Bacterial endotoxins	04-01-2021	4/1/21	1	1	
64	Significance of toxoids in active immunity	05-01-2021	5/1/21	1	1	
65	Immunization programme	06-01-2021	6/1/21	1	1	
66	Importance of booster dose	07-01-2021	7/1/21	1	1	
II MID EXAMINATIONS FROM (18.01.2021 TO 23.01.2021)						
67	Diagnostic tests	25-01-2021	25/1/21	1	1	
68	Schick's test, Elisa test	27-01-2021	27/1/21	1	1	
69	Western blot test	28-01-2021	28/1/21	1	1	
70	Southern blot test	01-02-2021	1/2/21	1	1	
71	<u>Unit- IX</u> PCR test	02-02-2021	2/2/21	1	1	
72	PCR test	03-02-2021	3/2/21	1	1	

Prepared: Faculty / Date

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TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: Dr. S. Sundar

Designation: Associate Professor

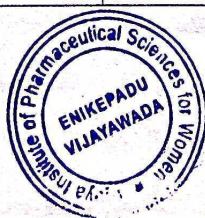
Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
73	Widal test	08-02-2021	8/2/21	1	1	
74	QBC test	09-02-2021	9/2/21	1	1	
75	Mantoux peripheral smear test	10-02-2021	10/2/21	1	1	
76	Study of malarial parasites	11-02-2021	11/2/21	1	1	
77	Microbial culture sensitivity testing	15-02-2021	15/2/21	1	1	
78	Interpretation of results	16-02-2021	16/2/21	1	1	
79	Principle and methods of different microbiological assays	17-02-2021	17/2/21	1	1	
80	<u>Unit- X</u> Principle and methods of different microbiological assays	18-02-2021	18/2/21	1	1	
81	Penicillin microbiological assay	22-02-2021	22/2/21	1	1	
82	Streptomycin microbiological assay	23-02-2021	23/2/21	1	1	
83	Vitamin B ₂ microbiological assay	24-02-2021	24/2/21	1	1	
84	Vitamin B ₁₂ microbiological assay	25-02-2021	25/2/21	1	1	
85	Standardization of vaccine	01-03-2021	1/3/21	1	1	
86	Standardization of sera	02-03-2021	2/3/21	1	1	

Prepared: Faculty / Date

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ENIKEPADU, VIJAYAWADA - 521 108

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: Dr. S. Sundar

Designation: Associate Professor

Semester/ year: II – Pharm. D

Name of the subject: Pharmaceutical Microbiology

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
87	Study of infectious diseases	03-03-2021	3/3/21	1	1	
88	Typhoid	04-03-2021	4/3/21	1	1	
89	Typhoid	08-03-2021	8/3/21	1	1	
90	Tuberculosis	09-03-2021	9/3/21	1	1	
91	Malaria	10-03-2021	10/3/21	1	1	
92	Cholera	11-03-2021	11/3/21	1	1	
93	Hepatitis	15-03-2021	15/3/21	1	1	
94	Meningitis	16-03-2021	16/3/21	1	1	
95	Syphilis	17-03-2021	17/3/21	1	1	
96	Gonorrhoea	18-03-2021	18/3/21	1	1	
97	HIV	22-03-2021	22/3/21	1	1	
98	Revision	23-03-2021	23/3/21	1	1	
99	Revision	24-03-2021	24/3/21	1	1	
100	Revision	25-03-2021	25/3/21	1	1	

III MID EXAMINATIONS FROM (05.04.2021 TO 10.04.2021)

Prepared: Faculty / Date



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TEACHING PLAN CUM REALIZATION

Department: Pharmaceutics
Semester/ year: 1/1Name of the faculty: S. VENKATESWARA RAO
Name of the subject: Drug Delivery System

Designation: Assoc.prof

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	Introduction about CR/SR dosage forms	22/02/21	22/02/21	1	1	
2	Conventional formulation vs Controlled formulation	24/02/21	24/02/21	1	1	
3	Factors influencing designs of CDDS	26/02/21	26/2/21	1	1	
4	Pharmacokinetic & Pharmacodynamic factors	27/02/21	27/2/21	1	1	
5	Drug release patterns in CDDS	01/03/21	01/3/21	1	1	
6	Classification of CDDS	03/03/21	03/03/21	1	1	
7	Activated modulated Drug delivery system	05/03/21	05/3/21	1	1	
8	Mechanically activated Drug delivery system	06/03/21	06/3/21	1	1	
9	Feedback Regulated Drug Delivery System	08/03/21	08/3/21	1	1	
10	Polymer classification, properties	10/03/21	10/3/21	1	1	
11	Application of polymers in formulation	12/03/21	12/3/21	1	1	
12	Gastro – retentive Drug delivery system, advantages & disadvantages	13/03/21	13/3/21	1	1	
13	Approaches to GI transit	15/03/21	15/3/21	1	1	
14	Buccal drug delivery system	17/03/21	17/3/21	1	1	
15	Mechanism of Drug penetration	19/03/21	19/3/21	1	1	
16	Formulation of Mucoadhesive	20/03/21	20/3/21	1	1	
17	Evaluation of Mucoadhesive dosage forms	22/03/21	22/3/21	1	1	
18	Transdermal Drug delivery system	24/03/21	24/3/21	1	1	
19	Skin structure and mechanism of absorption	27/03/21	27/3/21	1	1	
20	Factors affecting drug absorption	29/03/21	29/3/21	1	1	
21	Formulation of TDDS	31/03/21	31/3/21	1	1	
22	Types of TDDS	02/04/21	02/4/21	1	1	
23	Evaluation of TDDS	03/04/21	03/4/21	1	1	

Prepared: Faculty / Date
15/12/21
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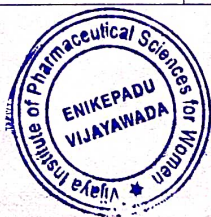
VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmaceutics
Semester/ year: I / IName of the faculty: S. VENKATESWARA RAO
Name of the subject: Drug Delivery System

Designation: Assoc.prof

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
24	Permission enhancers in TDDS	12/04/21	12/4/21	1	1	
25	Floating Drug delivery system	16/04/21	16/4/21	1	1	
26	Formulation of Floating Drug delivery system	17/04/21	17/4/21	1	1	
27	Evaluation of Floating Drug delivery system	19/04/21	19/4/21	1	1	
28	Protein & Peptide drug delivery system	20/04/21	20/4/21	1	1	
29	Biodegradable based Drug delivery system	22/04/21	22/4/21	1	1	
30	Basic principle in self regulated	23/04/21	23/4/21	1	1	
31	Erosion controlled Drug delivery system	24/04/21	24/4/21	1	1	
32	Self regulated Drug delivery system	26/04/21	26/4/21	1	1	
33	Ocular Drug delivery system	27/04/21	27/4/21	1	1	
34	Advantages & Disadvantages	28/04/21	28/4/21	1	1	
35	Dosage form design/ formulation	29/04/21	29/4/21	1	1	
36	Solid dosage forms	30/04/21	30/4/21	1	1	
37	New ocular Drug delivery system	01/05/21	01/5/21	1	1	
38	Evaluation of Ocular Drug delivery system	03/05/21	03/5/21	1	1	
39	Evaluation of Ocular Drug delivery system	04/05/21	04/5/21	1	1	
40	Revision of Ocular Drug delivery system	05/05/21	05/5/21	1	1	
41	Dosage form for Personalized medicine	06/05/21	06/5/21	1	1	
42	Dosage form for Personalized medicine	07/05/21	07/5/21	1	1	
43	Pharmacogenetics	08/05/21	08/5/21	1	1	
44	Categories of patients for Personalized medicine	10/05/21	10/5/21	1	1	
45	Categories for Personalized medicine	11/05/21	11/05/21	1	1	
46	Customized Drug delivery system	12/05/21	12/05/21	1	1	

Prepared: Faculty / Date
S. Venkatesh
15/2/21

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TEACHING PLAN CUM REALIZATION

Department: Pharmaceutics
Semester/ year: I / I

Name of the faculty: S. VENKATESWARA RAO
Name of the subject: Drug Delivery System

Designation: Assoc.prof

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
47	Bioelectronic medicine	13/05/21	13/05/21	1	1	
48	3D Printing of Pharmaceuticals	15/05/21	15/05/21	1	1	
49	3D Printing of Pharmaceuticals	17/05/21	17/05/21	1	1	
50	Tele pharmacy	18/05/21	18/05/21	1	1	
51	Tele pharmacy	19/05/21	19/05/21	1	1	
52	Vaccine Drug delivery system	20/05/21	20/05/21	1	1	
53	History of Vaccines	21/05/21	21/05/21	1	1	
54	Types of Vaccines	22/05/21	22/05/21	1	1	
55	Transdermal Vaccines	24/05/21	24/05/21	1	1	
56	Barriers in Ocular Drug delivery system	25/05/21	25/05/21	1	1	
57	Barriers in Protein & Peptide Drug delivery system	26/05/21	26/05/21	1	1	
58	Personalized medicine, Pharmacogenetics	27/05/21	27/05/21	1	1	
59	Bioelectronic medicine	28/05/21	28/05/21	1	1	
60	Tele pharmacy	29/05/21	29/05/21	1	1	
61	3D Printing in Pharmaceutical Industry	31/05/21	31/05/21	1	1	

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S. Venkateshwar / 15/2/21



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TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy
Semester/ year: I Sem / IName of the faculty: Dr. M. Vamsi Krishna
Name of the subject: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

Designation: Professor

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	Introduction , Principle of UV	22-02-2021	22-02-21	1	1	
2	Instrumentation of UV	23-02-2021	23-02-21	1	1	
3	Applications of UV	24-02-2021	24-02-21	1	1	
4	Introduction , Principle of IR	25-02-2021	25-02-21	1	1	
5	Instrumentation of IR	26-02-2021	26-02-21	1	1	
6	Applications of IR	27-02-2021	27-02-21	1	1	
7	Introduction , Principle of Spectrofluorimetry	01-03-2021	01-03-21	1	1	
8	Instrumentation of Spectrofluorimetry	02-03-2021	2-03-21	1	1	
9	Applications of Spectrofluorimetry	03-03-2021	3-03-21	1	1	
10	Introduction , Principle of FES	04-03-2021	4-03-21	1	1	
11	Instrumentation of FES	05-03-2021	5-03-21	1	1	
12	Applications of FES	06-03-2021	6-03-21	1	1	
13	Introduction , Principle of AAS	08-03-2021	8-03-21	1	1	
14	Instrumentation of AAS	09-03-2021	9-03-21	1	1	
15	Applications of AAS	10-03-2021	10-03-21	1	1	
16	Principle procedure of AES	12-03-2021	12-03-21	1	1	
17	Introduction of AES	13-03-2021	13-03-21	1	1	

Prepared: Faculty / Date



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TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy
Semester/ year: ISem / IName of the faculty: Dr. M. Vamsi Krishna
Name of the subject: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

Designation: Professor

Sl. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
18	Instrumentation of AES	14-03-2021	14-03-21	1	1	
19	Applications of AES	15-03-2021	15-03-21	1	1	
20	Introduction , Principle of NMR	16-03-2021	16-03-21	1	1	
21	Instrumentation & Solvent requirement in NMR, Relaxation process, NMR signals in various compounds, Chemical shift, Factors influencing chemical shift, Spin-Spin coupling, Coupling constant	17-03-2021	17-03-21	1	1	
22	Nuclear magnetic double resonance, Brief outline of principles of FT-NMR and 13C NMR. Applications of NMR spectroscopy.	18-03-2021	18-03-21	1	1	
23	Principle, Theory, Instrumentation of Mass spectroscopy	19-03-2021	19-3-21	1	1	
24	Different types of ionization like electron impact, chemical, field, FAB and MALDI, APCI, ESI	20-03-2021	20-3-21	1	1	
25	APPI Analysers of Quadrapole and Time of Flight, Mass fragmentation and its rules	23-03-2021	22-3-21	1	1	
26	Meta stable ions, Isotopic peaks and Applications of Mass spectroscopy	24-03-2021	24-3-21	1	1	
27	Chromatographic parameters, factors affecting resolution	27-03-2021	27-3-21	1	1	
28	Principle, Instrumentation of TLC	29-03-2021	29-3-21	1	1	
29	Applications of TLC	31-03-2021	31-3-21	1	1	
30	Principle, Instrumentation of HPTLC	02-04-2021	2-4-21	1	1	

Prepared: Faculty / Date

COMMENCEMENT OF I MID EXAMINATIONS (05/04/2021 to 10/04/2021)

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TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy
Semester/year: I Sem / I

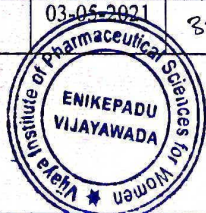
Name of the faculty: Dr. M. Vamsi Krishna
Name of the subject: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES


Designation: Professor

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
31	Applications of HPTLC	03-04-2021	3-4-21	1	1	
32	Principle, Instrumentation of IEC	12-04-2021	12-4-21	1	1	
33	Applications of IEC	16-04-2021	16-4-21	1	1	
34	Principle, Instrumentation of CC	17-04-2021	17-4-21	1	1	
35	Applications of CC	19-04-2021	19-4-21	1	1	
36	Principle, Instrumentation of GC	20-04-2021	20-4-21	1	1	
37	Applications of GC	22-04-2021	22-4-21	1	1	
38	Principle, Instrumentation of HPLC	23-04-2021	23-4-21	1	1	
39	Applications of HPLC	24-04-2021	24-4-21	1	1	
40	Principle, Instrumentation of UHPLC	26-04-2021	26-4-21	1	1	
41	Applications of UHPLC	27-04-2021	27-4-21	1	1	
42	Principle, Instrumentation of AC	28-04-2021	28-4-21	1	1	
43	Applications of AC	29-04-2021	29-4-21	1	1	
44	Principle, Instrumentation of GC	30-04-2021	30-4-21	1	1	
45	Applications of GC	01-05-2021	1-5-21	1	1	
46	Principle, instrumentation paper Electrophoresis, GE	03-05-2021	3-5-21	1	1	

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TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy
Semester/ year: ISem / I

Name of the faculty: Dr. M. Vamsi Krishna
Name of the subject: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

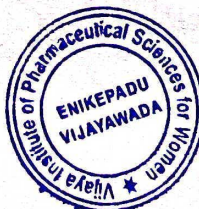
Designation: Professor

Sl. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
47	Working conditions, factors affecting Separation and applications of Paper Electrophoresis, GE	04-05-2021	4-5-21	1	1	
48	Principle, instrumentation CE, ZE	05-05-2021	5-5-21	1	1	
49	Working conditions, factors affecting Separation and applications CE, ZE	06-05-2021	6-5-21	1	1	
50	Principle, instrumentation MBE, IEF	07-05-2021	7-5-21	1	1	
51	Working conditions, factors affecting Separation and applications MBE, IEF	08-05-2021	8-5-21	1	1	
52	Production of X rays, Different X ray methods, Bragg's law, Rotating crystal technique	10-05-2021	10-5-21	1	1	
53	X ray powder technique, Types of crystals And applications of X-ray diffraction	11-05-2021	11-5-21	1	1	
54	Principle, working, Ion selective Electrodes And Application of potentiometry	12-05-2021	12-5-21	1	1	
55	Principle, thermal transitions and Instrumentation (Heat flux and power-Compensation and designs) Modulated DSC	13-05-2021	13-5-21	1	1	
56	Principle, thermal transitions and Instrumentation (Heat flux and power-Compensation and designs) Hyper DSC	15-05-2021	15-5-21	1	1	
57	Experimental parameters (sample Preparation, experimental conditions, Calibration, heating and cooling rates, Resolution, source of errors)	17-05-2021	17-5-21	1	1	
58	Their influence, advantage and Disadvantages, pharmaceutical applications. Differential thermal analysis (DTA): Principle, instrumentation, and	18-05-2021	18-5-21	1	1	

	Advantage and disadvantages, Pharmaceutical applications, derivative Differential thermal analysis (DDTA).					
59	TGA: Principle, instrumentation, factors Affecting results	19-05-2021	19-5-21	1	1	
60	Advantage and disadvantages, Pharmaceutical applications.	20-05-2021	20-5-21	1	1	

COMMENCEMENT OF II MID EXAMINATIONS (24/05/2021 to 29/05/2021)

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TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: A JAYARAMI REDDY

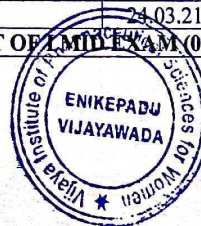
Designation: Assoc.prof

Semester/year: I Sem / 1 year Name of the subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

Section- M Pharm PHARMACOLOGY

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1	Unit -I Common lab animals: Description, handling	22.02.21	22/2/21	1	1	
2	Applications of different species and strains of animals.	23.02.21	23/2/21	1	1	
3	Transgenic animals: Production, Maintenance and applications	24.02.21	24/2/21	1	1	
4	Anaesthesia of experimental animals.	26.02.21	26/2/21	1	1	
5	Euthanasia of experimental animals.	27.02.21	27/2/21	1	1	
6	Maintenance of laboratory animals.	01.03.21	1/3/21	1	1	
7	Breeding of laboratory animals.	02.03.21	2/3/21	1	1	
8	CPCSEA guidelines to conduct experiments on animals	03.03.21	3/3/21	1	1	
9	Good laboratory practice	05.03.21	5/3/21	1	1	
10	Unit -II Preclinical screening CNS stimulants	06.03.21	6/3/21	1	1	
11	preclinical screening behavioral and muscle coordination	08.03.21	8/3/21	1	1	
12	General principles of preclinical screening CNS depressants	09.03.21	9/3/21	1	1	
13	General principles of preclinical screening anxiolytics	10.03.21	10/3/21	1	1	
14	General principles of preclinical screening anti-psychotics	12.03.21	12/3/21	1	1	
15	General principles of preclinical screening anti epileptics	13.03.21	13/3/21	1	1	
16	General principles of preclinical screening nootropics	15.03.21	15/3/21	1	1	
17	Preclinical screening anti Parkinsonism drugs	16.03.21	22/3/21	1	1	
18	General principles of preclinical screening anti Alzheimers drugs	17.03.21	24/3/21	1	1	
19	General principles of preclinical screening multiple sclerosis	19.03.21	31/4/21	1	1	Health problems -
20	Drugs acting on Autonomic Nervous System.	20.03.21	12/4/21	1	1	
21	Drugs acting on Autonomic Nervous System.	22.03.21	16/4/21	1	1	
22	Unit-III Preclinical screening of anti-asthmatics	23.03.21	19/4/21	1	1	
23	Preclinical screening of drugs for COPD	24.03.21	19/4/21	1	1	
COMMENCEMENT OF MID EXAM (05.04.21-10.04.21)						

Prepared: Faculty / Date



Verified: HOD / Date
PRINCIPAL
VIJAYA INSTITUTE OF
 PHARMACEUTICAL SCIENCES FOR WOMEN

VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: A JAYARAMI REDDY

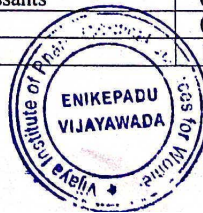
Designation: Assoc.prof

Semester/ year: I Sem / 1 year Name of the subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

Section- M Pharm PHARMACOLOGY

SL.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
24	Preclinical screening of antiallergics	26.03.21	19/4/21	1	1	
25	Preclinical screening of aprodisiacs	27.03.21	26/4/21	1	1	
26	Preclinical screening of anti fertility agents	29.03.21	26/4/21	1	1	
27	Preclinical screening of analgesics	30.03.21	23/4/21	1	1	
28	Preclinical screening of anti inflammatory agents	31.03.21	23/4/21	1	1	
29	Preclinical screening of anti pyretics	03.04.21	26/4/21	1	1	
30	Preclinical screening of anti ulcer agents	12.04.21	27/4/21	1	1	
31	Preclinical screening of anti diarrhoel agents	16.04.21	27/4/21	1	1	
32	Preclinical screening of anti emetics	17.04.21	28/4/21	1	1	
33	Preclinical screening of laxatives	19.04.21	26/4/21	1	1	
34	Unit-IV Preclinical screening of anti hypertensives	20.04.21	11/5/21	1	1	
35	Preclinical screening of anti hypertensives	23.04.21	31/5/21	1	1	
36	Preclinical screening of anti anginals	24.04.21	4/5/21	1	1	
37	Preclinical screening of antiarrhythmics	26.04.21	5/5/21	1	1	
38	Preclinical screening of atherosclerotics	27.04.21	7/5/21	1	1	
39	Preclinical screening of anti diabetics	28.04.21	5/5/21	1	1	
40	Preclinical screening of antidiabetics	30.04.21	10/5/21	1	1	
41	Preclinical screening of antihyperlipedemics	01.05.21	11/5/21	1	1	
42	Preclinical screening of diuretics	03.05.21	21/5/21	1	1	
43	Preclinical screening of anticancer agents	04.05.21	15/5/21	1	1	
44	Preclinical screening of anticanceragents	05.05.21	17/5/21	1	1	
45	Unit-V Preclinical screening of immunosuppressants	07.05.21	17/5/21	1	1	
46	Preclinical screening of immunomodulators	08.05.21	18/5/21	1	1	
47	General principles of immunoassay	10.05.21	19/5/21	1	1	

Prepared: Faculty / Date
 A. Jayarami Reddy 19/5/21



Verified: HOD / Date
 P. Prasad
 VIJAYA INSTITUTE OF
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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: Pharmacy

Name of the faculty: A JAYARAMI REDDY

Designation: Assoc.prof

Semester/ year: I Sem / I year Name of the subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

Section- M Pharm PHARMACOLOGY

SL.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
48	Theoretical basis and optimization of immunoassay	11.05.21	20/5/21	1	1	
49	Heterogeneous and homogenous immunoassay systems	12.05.21	21/5/21	1	1	
50	Immunoassay methods evaluation	15.05.21	21/5/21	1	1	
51	Protocol outline, objectives and preparation	17.05.21	22/5/21	1	1	
52	Immunoassay of digoxin	18.05.21	24/5/21	1	1	
53	Immunoassay of Insulin	19.05.21	20/5/21	1	1	
54	Limitations alternatives to animal experimentation	21.05.21	23/5/21	1	1	
55	Extrapolation of in vitro data to preclinical and preclinical to humans.	22.05.21	25/5/21	1	1	

COMMENCEMENT OF II MID EXAM (24.05.21-29.05.21)

AJ Reddy
19/5/21
Prepared: Faculty / Date



[Signature]
Verified: HOD / Date

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