

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Year: I YEAR

Name of the faculty: Ch. Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst. prof
Section: A

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: Pharmaceutical Analysis: Introduction, definition and scope	14.02.2022	17/2/22	1	1	
2	Techniques of analysis	17.02.2022	17/2/22	1	1	
3	Methods of expressing concentration	18.02.2022	18/2/22	1	1	
4	Introduction to standardization, Primary and secondary standards	18.02.2022	18/2/22	1	1	
5	Preparation & standardization of various molar and normal solutions-oxalic acid, sodium hydroxide, hydrochloric acid, sulphuric acid.	19.02.2022	19/2/22	1	1	
6	Preparation & standardization of various molar and normal solutions-sodium thiosulphate, potassium permanganate, ceric ammonium sulphate.	21.02.2022	21/2/22	1	1	
7	Errors: Sources of errors and types of errors.	24.02.2022	24/2/22	1	1	
8	Methods of minimizing errors	25.02.2022	25/2/22	1	1	
9	Accuracy and Precision, Significant figures.	25.02.2022	25/2/22	1	1	
10	Pharmacopoeia	26.02.2022	26/2/22	1	1	
11	Sources of Impurities in Medicinal agents	28.02.2022	28/2/22	1	1	
12	Limit Tests	3.03.2022	3/3/22	1	1	
13	UNIT-II: Acid base titrations: Introduction and theory	4.03.2022	4/3/22	1	1	
14	Theories of acid base indicators	4.03.2022	4/3/22	1	1	
15	Classification of acid base titrations	5.03.2022	5/3/22	1	1	
16	Theory involved in titrations of strong, weak and very weak acids and bases.	7.03.2022	7/3/22	1	1	
17	Neutralization curves.	10.03.2022	10/3/22	1	1	
18	Non aqueous titrations: Introduction, Classification of solvents	11.03.2022	11/3/22	1	1	
19	Acidimetry and Alkalimetry titrations.	11.03.2022	11/3/22	1	1	
20	Estimation of sodium benzoate and Ephedrine Hcl.	14.03.2022	14/3/22	1	1	
21	UNIT-III: Precipitation titrations: Introduction, classification of methods of precipitation.	17.03.2022	17/3/22	1	1	
22	Mohr's method	18.03.2022	18/3/22	1	1	
23	Volhard's method	19.03.2022	19/3/22	1	1	
24	Modified volhard's, Fajans's method.	21.03.2022	21/3/22	1	1	

Prepared: Faculty / Date
Ch. A. Swathi



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

TEACHING PLAN CUM REALIZATION

Department: B.Pharmacy
Year: I YEAR

Name of the faculty: CH.Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst.Prof
Section: A

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
25	Estimation of sodium chloride.	24.03.2022	24/3/22	1	1	
26	Complexometric titration: Introduction, classification, metal ion indicators.	25.03.2022	25/3/22	1	1	
27	Masking and demasking reagents.	25.03.2022	25/3/22	1	1	
28	Estimation of magnesium sulphate & calcium gluconate.	26.03.2022	26/3/22	1	1	
29	Gravimetry: Introduction and principle	28.03.2022	28/3/22	1	1	
30	Steps involved in gravimetric analysis	31.03.2022	31/3/22	1	1	
Commencement of I Mid Exam: 03.04.22-09.04.2022						
31	Purity of precipitate: co-precipitation	11.04.2022	11/4/22	1	1	
32	Post precipitation	18.04.2022	18/4/22	1	1	
33	Estimation of barium sulphate	21.04.2022	21/4/22	1	1	
34	Basic Principles of Diazotization titrations.	22.04.2022	22/4/22	1	1	
35	Methods and Applications of Diazotization titrations.	22.04.2022	22/4/22	1	1	
36	UNIT-IV: Redox titrations: Introduction and concepts of oxidation and reduction	23.04.2022	23/4/22	1	1	
37	Types of redox titrations.	25.04.2022	25/4/22	1	1	
38	Principle involved in Cerimetry and Applications.	28.04.2022	25/5/22	1	1	Spent week.
39	Principle involved in Iodimetry and Applications.	29.04.2022	5/5/22	1	1	
40	Principle involved in Iodometry and Applications.	29.04.2022	5/5/22	1	1	
41	Principle involved in Bromatometry and Applications.	30.04.2022	6/5/22	1	1	
42	Principle involved in dichrometry and Applications.	2.05.2022	6/5/22	1	1	
43	Titration with potassium iodate.	5.05.2022	6/5/22	1	1	
44	UNIT-V: Electrochemical methods of analysis: Conductometry: Introduction	6.05.2022	7/5/22	1	1	
45	Conductivity cell, Conductometric titrations	6.05.2022	7/5/22	1	1	
46	Applications.	7.05.2022	7/5/22	1	1	

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Prepared: Faculty / Date



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TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Year: I YEAR

Name of the faculty: CH. Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst. Prof
Section: A

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	Potentiometry: Introduction, electrochemical cell	9.05.2022	9/5/22	1	1	
48	Construction and working of reference electrodes (standard hydrogen electrode)	12.05.2022	12/5/22	1	1	
49	Construction and working of reference electrodes (silver chloride electrode)	13.05.2022	13/5/22	1	1	
50	Construction and working of reference electrodes (calomel electrode)	14.05.2022	14/5/22	1	1	
51	Construction and working of reference electrodes (metal electrode)	16.05.2022	16/5/22	1	1	
52	Construction and working of indicator electrodes (glass electrode)	19.05.2022	19/5/22	1	1	
53	Methods to determine endpoint of Potentiometric titration.	20.05.2022	20/05/22	1	1	
54	Applications.	20.05.2022	20/5/22	1	1	
55	Polarography: Introduction, principle.	21.05.2022	21/5/22	1	1	
56	Ilkovic equation.	23.05.2022	23/5/22	1	1	
57	Ilkovic equation and theory.	26.05.2022	26/5/22	1	1	
58	Construction and working of dropping mercury electrode.	27.05.2022	27/5/22	1	1	
59	Construction and working of rotating platinum electrode.	27.05.2022	27/5/22	1	1	
60	Applications	28.05.2022	28/5/22	1	1	
Commencement of II MID Exam: 30.05.2022-04.06.2022						

CH. A. Swathi
Prepared: Faculty / Date:



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TEACHING PLAN CUM REALIZATION

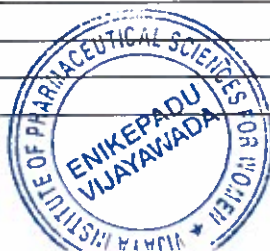
Department: B.Pharmacy
Year: I YEAR

Name of the faculty: Ch. Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst. prof
Section: B

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: Pharmaceutical Analysis: Introduction, definition and scope	14.02.2022	17/2/22	1	1	
2	Techniques of analysis	15.02.2022	17/2/22	1	1	
3	Methods of expressing concentration	16.02.2022	18/2/22	1	1	
4	Introduction to standardization, and secondary standards	17.02.2022	19/2/22	1	1	
5	Preparation & standardization of various molar and normal solutions-oxalic acid, sodium hydroxide, hydrochloric acid, sulphuric acid.	19.02.2022	20/2/22	1	1	
6	Preparation & standardization of various molar and normal solutions-sodium thiosulphate, potassium permanganate, ceric ammonium sulphate.	21.02.2022	21/2/22	1	1	
7	Errors: Sources of errors and types of errors.	22.02.2022	22/2/22	1	1	
8	Methods of minimizing errors	23.02.2022	23/2/22	1	1	
9	Accuracy and Precision, Significant figures.	24.02.2022	24/2/22	1	1	
10	Pharmacopoeia	26.02.2022	26/2/22	1	1	
11	Sources of Impurities in Medicinal agents	28.02.2022	28/2/22	1	1	
12	Limit Tests	02.03.2022	2/3/22	1	1	
13	UNIT-II: Acid base titrations: Introduction and theory	03.03.2022	3/3/22	1	1	
14	Theories of acid base indicators	5.03.2022	5/3/22	1	1	
15	Classification of acid base titrations	7.03.2022	7/3/22	1	1	
16	Theory involved in titrations of strong, weak and very weak acids and bases.	8.03.2022	8/3/22	1	1	
17	Neutralization curves.	9.03.2022	9/3/22	1	1	
18	Non aqueous titrations: Introduction, Classification of solvents	10.03.2022	10/3/22	1	1	
19	Acidimetry and Alkalimetry titrations.	12.03.2022	12/3/22	1	1	
20	Estimation of sodium benzoate and Ephedrine Hcl.	14.03.2022	14/3/22	1	1	
21	UNIT-III: Precipitation titrations: Introduction, classification of methods of precipitation.	15.03.2022	15/3/22	1	1	
22	Mohr's method	16.03.2022	16/3/22	1	1	
23	Volhard's method	17.03.2022	17/3/22	1	1	
24	Modified volhard's, Fajans's method.	21.03.2022	21/3/22	1	1	

Prepared: Faculty / Date
Ch. A. Swathi



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VIJAYA INSTITUTE OF
QUADPHARMACEUTICAL SCIENCES FOR WOMEN

TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Year: I YEAR

Name of the faculty: CH. Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst.Prof
Section. B

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
25	Estimation of sodium chloride.	22.03.2022	22/3/22	1	1	
26	Complexometric titration: Introduction, classification, metal ion indicators.	23.03.2022	23/3/22	1	1	
27	Masking and demasking reagents.	24.03.2022	24/3/22	1	1	
28	Estimation of magnesium sulphate & calcium gluconate.	26.03.2022	26/3/22	1	1	
29	Gravimetry: Introduction and principle	29.03.2022	29/3/22	1	1	
30	Steps involved in gravimetric analysis	30.03.2022	30/3/22	1	1	
Commencement of I Mid Exam: 03.04.22-09.04.22						
31	Purity of precipitate: co-precipitation	12.04.2022	12/4/22	1	1	
32	Post precipitation	13.04.2022	13/4/22	1	1	
33	Estimation of barium sulphate	18.04.2022	18/4/22	1	1	
34	Basic Principles of Diazotization titrations.	19.04.2022	19/4/22	1	1	
35	Methods and Applications of Diazotization titrations.	20.04.2022	20/4/22	1	1	
36	UNIT-IV: Redox titrations: Introduction and concepts of oxidation and reduction	21.04.2022	21/4/22	1	1	
37	Types of redox titrations.	23.04.2022	23/4/22	1	1	
38	Principle involved in Cerimetry and Applications.	25.04.2022	25/4/22	1	1	
39	Principle involved in Iodimetry and Applications.	26.04.2022	25/4/22	1	1	2 days week
40	Principle involved in Iodometry and Applications.	27.04.2022	4/5/22	1	1	
41	Principle involved in Bromatometry and Applications.	28.04.2022	4/5/22	1	1	
42	Principle involved in dichrometry and Applications.	30.04.2022	5/5/22	1	1	
43	Titration with potassium iodate.	02.05.2022	5/5/22	1	1	
44	UNIT-V: Electrochemical methods of analysis: Conductometry: Introduction	04.05.2022	5/5/22	1	1	
45	Conductivity cell, Conductometric titrations	05.05.2022	7/5/22	1	1	
46	Applications.	07.05.2022	7/5/22	1	1	

CH. A. Swathi
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TEACHING PLAN CUM REALIZATION

Department: B. Pharmacy
Year: 1 YEAR

Name of the faculty: CH. Anupama Swathi
Name of the subject: Pharmaceutical Analysis-I

Designation: Asst. Prof
Section: B

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	Potentiometry: Introduction, electrochemical cell	09.05.2022	9/5/22	1	1	
48	Construction and working of reference electrodes (standard hydrogen electrode)	10.05.2022	10/5/22	1	1	
49	Construction and working of reference electrodes (silver chloride electrode)	11.05.2022	11/5/22	1	1	
50	Construction and working of reference electrodes (calomel electrode)	12.05.2022	12/5/22	1	1	
51	Construction and working of reference electrodes (metal electrode)	14.05.2022	14/5/22	1	1	
52	Construction and working of indicator electrodes (glass electrode)	16.05.2022	16/5/22	1	1	
53	Methods to determine endpoint of Potentiometric titration.	17.05.2022	17/5/22	1	1	
54	Applications.	18.05.2022	18/5/22	1	1	
55	Polarography: Introduction, principle.	19.05.2022	19/5/22	1	1	
56	Ilkovic equation.	21.05.2022	21/5/22	1	1	
57	Ilkovic equation and theory.	23.05.2022	23/5/22	1	1	
58	Construction and working of rotating platinum electrode.	24.05.2022	24/5/22	1	1	
59	Construction and working of dropping mercury electrode.	25.05.2022	25/5/22	1	1	
60	Applications.	26.05.2022	26/5/22	1	1	
Commencement of IIMID Exam: 30.05.2022-04.06.2022						

CH. A. Swathi
Prepared: Faculty / Date:




Verified: HOD / Date:

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ENIKEPADU, VIJAYAWADA

VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy

Name of the faculty: P.M. Naga Lakshmi

Designation: Asst. Prof

Semester/ year: II / I

Name of the subject: Computer Aided Drug Development

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: Computers In Pharmaceutical Research and Development: History of Computers in Pharmaceutical Research and Development	27-06-22	27/6/22	1	1	
2	Statistical modelling in Pharmaceutical Research and development: Descriptive versus Mechanistic Modelling	28-06-22	28/6/22	1	1	
3	Statistical Parameters	29-06-22	29/6/22	1	1	
4	Estimation of statistical parameters	30-06-22	30/6/22	1	1	
5	Confidence Regions and Sensitivity Analysis	04-07-22	4/7/22	1	1	
6	Nonlinearity at the Optimum and Optimal Design	05-07-22	5/7/22	1	1	
7	Population Modeling	06-07-22	6/7/22	1	1	
8	Quality-by-Design In Pharmaceutical Development: Introduction, uses and applications	07-07-22	7/7/22	1	1	
9	ICH Q8 guideline	11-07-22	11/7/22	1	1	
10	Regulatory and industry views on QbD	12-07-22	12/7/22	1	1	
11	Scientifically based QbD - examples of application	13-07-22	13/7/22	1	1	
12	Scientifically based QbD - examples of application	14-07-22	14/7/22	1	1	
13	Unit V: Artificial Intelligence (AI), Robotics and Computational fluid Dynamics: General overview	18-07-22	18/7/22	1	1	
14	Pharmaceutical Automation	19-07-22	19/7/22	1	1	
15	Pharmaceutical applications, Advantages and Disadvantages	20-07-22	20/7/22	1	1	
16	Current Challenges and Future Directions	21-07-22	21/7/22	1	1	

Prepared: Faculty / Date

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JAYAKRISHNA INSTITUTE

VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy

Name of the faculty: P.M. Naga Lakshmi

Designation: Asst. Prof

Semester/ year: II / I

Name of the subject: Computer Aided Drug Development

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
17	Unit IV: Computers in Clinical Development: Clinical Data Collection	25-07-22	25/7/22	1	1	
18	Clinical Data Management	26-07-22	26/7/22	1	1	
19	Regulation of Computer Systems	27-07-22	27/7/22	1	1	
20	Computer-aided biopharmaceutical characterization: Gastrointestinal absorption simulation, Introduction	28-07-22	28/7/22	1	1	
21	Theoretical Background and Model construction	29-07-22	1/8/22	1	1	
22	Parameter sensitivity analysis and Virtual trial	01-08-22	2/8/22	1	1	
23	Fed vs. fasted state and In vitro dissolution	02-08-22	3/8/22	1	1	
24	In vitro-in vivo correlation	03-08-22	4/8/22	1	1	
25	Biowaiver considerations	04-08-22	4/8/22	1	1	
26	Computer Simulations in Pharmacokinetics and Pharmacodynamics: Introduction	05-08-22	5/8/22	1	1	
27	Computer Simulation: Whole Organism	08-08-22	8/8/22	1	1	
28	Isolated Tissues	10-08-22	10/8/22	1	1	
29	Organs and Cell	11-08-22	11/8/22	1	1	
30	Proteins and Genes	12-08-22	12/8/22	1	1	

I MID EXAMINATIONS (15-08-22 to 20-08-22)

COMMENCEMENT OF II MID CLASS WORK FROM 22-08-2022

Prepared: Faculty / Date

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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy

Name of the faculty: P.M. Naga Lakshmi

Designation: Asst. Prof

Semester/ year: II / I

Name of the subject: Computer Aided Drug Development

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	Unit II: Computational Modelling Of Drug Disposition: Introduction	22-08-22	22/8/22	1	1	
32	Modelling Techniques: Drug Absorption	23-08-22	23/8/22	1	1	
33	Drug Absorption	24-08-22	24/8/22	1	1	
34	Solubility	25-08-22	26/8/22	1	1	Leave
35	Solubility	29-08-22	29/8/22	1	1	
36	Intestinal Permeation	30-08-22	30/8/22	1	1	
37	Intestinal Permeation	01-09-22	1/9/22	1	1	
38	Drug Distribution	02-09-22	2/9/22	1	1	
39	Drug Distribution	05-09-22	3/9/22	1	1	
40	Drug Excretion	06-09-22	8/9/22	1	1	
41	Drug Excretion	07-09-22	8/9/22	1	1	Leave
42	Active Transport; P-gp and BCRP	08-09-22	8/9/22	1	1	
43	Nucleoside Transporters, hPEPT1 and ASBT	09-09-22	9/9/22	1	1	
44	OCT, OATP, BBB-Choline Transporter	12-09-22	12/9/22	1	1	
45	Unit III: Computer-aided formulation development: Introduction	13-09-22	13/9/22	1	1	

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VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN

VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

Department: M. Pharmacy

Name of the faculty: P.M. Naga Lakshmi

Designation: Asst. Prof

Semester/ year: II / I

Name of the subject: Computer Aided Drug Development

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 Optimization	14-09-22	14/9/22	1	1	
47	Optimization parameters	15-09-22	15/9/22	1	1	
48	Factorial design	16-09-22	16/9/22	1	1	
49	Factorial design	19-09-22	19/9/22	1	1	
50	Optimization technology	20-09-22	20/9/22	1	1	
51	Screening design	21-09-22	21/9/22	1	1	
52	Computers in Pharmaceutical Formulation: Introduction	22-09-22	22/9/22	1	1	
53	Development of pharmaceutical emulsions	23-09-22	23/9/22	1	1	
54	Development of pharmaceutical emulsions	26-09-22	26/9/22	1	1	
55	Development of pharmaceutical microemulsion drug carriers	27-09-22	27/9/22	1	1	
56	Development of pharmaceutical microemulsion drug carriers	28-09-22	28/9/22	1	1	
57	Legal Protection of Innovative Uses	29-09-22	29/9/22	1	1	
58	Ethics of Computing in Pharmaceutical Research	30-09-22	30/9/22	1	1	
59	Computers in Market analysis	06-10-22	10/10/22	1	1	Dussehra Holiday
60	Computers in Market analysis	07-10-22	11/10/22	1	1	"

II MID EXAMINATIONS (17-10-22 to 22-10-22)

Prepared: Faculty / Date

Verified: HOD / Date

TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: M. Pharm (Pharmacology)

Name of the faculty: Dr. S. Sundar

Designation: Professor

Semester/ year: I Sem / I year

Name of the subject: Cellular and Molecular 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	Introduction to cell biology	24.01.2022	24/1/22	1	1	
2	Structure and functions of cell	25.01.2022	25/1/22	1	1	
3	Cell organelles	26.01.2022	26/1/22	1	1	
4	Genome organization	27.01.2022	27/1/22	1	1	
5	Gene expression and it's Regulation	31.01.2022	31/1/22	1	1	
6	Importance of Si RNA & Micro RNA	01.02.2022	1/2/22	1	1	
7	Gene Mapping	02.02.2022	2/2/22	1	1	
8	Gene Sequencing	03.02.2022	3/2/22	1	1	
9	Cell cycle and it's Regulation	07.02.2022	7/2/22	1	1	
10	Cell death	08.02.2022	8/2/22	1	1	
11	Intrinsic pathway	09.02.2022	9/2/22	1	1	
12	Extrinsic pathway	10.02.2022	10/2/22	1	1	
13	Apoptosis, Necrosis	14.02.2022	14/2/22	1	1	
14	Autophagy	15.02.2022	15/2/22	1	1	
15	Cell signaling	16.02.2022	16/2/22	1	1	
16	Intercellular & intracellular signaling pathways	17.02.2022	17/2/22	1	1	
17	Ligand gated ion channel	21.02.2022	21/2/22	1	1	
18	G protein-coupled receptors	22.02.2022	22/2/22	1	1	
19	Tyrosine kinase receptors	23.02.2022	23/2/22	1	1	

Prepared: Faculty/ Date



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VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521 106

TEACHING PLAN CUM REALIZATION

Department: M. Pharm (Pharmacology)

Name of the faculty: Dr. S. Sundar

Designation: Professor

Semester/ year: I Sem / I year

Name of the subject: Cellular and Molecular Pharmacology

Sl.No	Unit / Topic		Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
20	Nuclear receptors	24.02.2022	24/2/22	1	1	
21	Secondary messengers –Cyclic AMP	28.02.2022	28/2/22	1	1	
22	Cyclic GMP	01.03.2022	1/3/22	1	1	
23	Calcium Ion, Inositol 1,4,5 tri phosphate	02.03.2022	2/3/22	1	1	
24	Nitric oxide, Diacyl Glycerol	07.03.2022	7/3/22	1	1	
25	Cyclic AMP Pathway	08.03.2022	8/3/22	1	1	
26	Mitogen Activated Protein Kinase Pathway (MAPK)	14.03.2022	14/3/22	1	1	
27	Janus kinase (JAK)	15.03.2022	15/3/22	1	1	
28	Signal transducer and activator of Transcription (STAT)	21.03.2022	21/3/22	1	1	
29	Principle and applications of Genomic tools	28.03.2022	28/3/22	1	1	
30	DNA Electrophoresis	29.03.2022	29/3/22	1	1	
I MID EXAMINATION FROM (03/04/2022 TO 09/04/2022) AND COMMENCEMENT OF II MID CLASS WORK						
31	PCR (Reverse Transcription, Real Time)	11.04.2022	11/4/22	1	1	
32	Micro array technique	12.04.2022	12/4/22	1	1	
33	SDS Page	13.04.2022	13/4/22	1	1	
34	ELISA	14.04.2022	14/4/22	1	1	
35	Western Blotting,	16.04.2022	16/4/22	1	1	

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VIJAYA INSTITUTE OF
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU, VIJAYAWADA - 521 40

TEACHING PLAN CUM REALIZATION

Department: M. Pharm (Pharmacology)

Name of the faculty: Dr. S. Sundar

Designation: Professor

Semester/ year: I Sem / I year

Name of the subject: Cellular and Molecular 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)
36	Recombinant technology, Restriction enzymes	16.04.2022	16/4/22	1	1	
37	Various types of vectors	18.04.2022	18/4/22	1	1	
38	Application of Recombinant DNA Technology	19.04.2022	19/4/22	1	1	
39	Gene Therapy, Types of gene transfer techniques	20.04.2022	20/4/22	1	1	
40	Clinical Applications	21.04.2022	21/4/22	1	1	
41	Recent Advances in gene therapy	25.04.2022	25/4/22	1	1	
42	Pharmacogenomics	26.04.2022	26/4/22	1	1	
43	Gene Mapping and cloning disease gene	27.04.2022	27/4/22	1	1	
44	Genetic variation and it's role in health and pharmacology	28.04.2022	28/4/22	1	1	
45	Polymorphism affecting drug metabolism	02.05.2022	2/5/22	1	1	
46	Genetic variation in G protein coupled receptors	03.05.2022	3/5/22	1	1	
47	Genomics, Proteomics	04.05.2022	4/5/22	1	1	
48	Metabolomics, Fuctionomics	05.05.2022	5/5/22	1	1	
49	Nutrigenomics, Immunotherapeutics	09.05.2022	9/5/22	1	1	
50	Basic equipemts used in cell culture	10.05.2022	10/5/22	1	1	

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PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA - 521

TEACHING PLAN CUM REALIZATION

Department: M. Pharm (Pharmacology)

Name of the faculty: Dr. S. Sundar

Designation: Professor

Semester/ year: I Sem / I year

Name of the subject: Cellular and Molecular 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)
51	Cell culture media,	11.05.2022	11/5/22	1	1	
52	Types of cell culture	12.05.2022	12/5/22	1	1	
53	Procedure of cell culture	16.05.2022	16/5/22	1	1	
54	Isolation of cells, Subculture	17.05.2022	17/5/22	1	1	
55	Cryopreservation,	18.05.2022	18/5/22	1	1	
56	Cell viability assays	19.05.2022	19/5/22	1	1	
57	Glucose uptake assay	23.05.2022	23/5/22	1	1	
58	Calcium influx assay	24.05.2022	24/5/22	1	1	
59	Flow cytometry	25.05.2022	25/5/22	1	1	
60	Biosimilars	26.05.2022	26/5/22	1	1	

II MID EXAMINATION FROM (30/05/2022 TO 04/06/2022)

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ENIKEPADU, VIJAYAWADA - 521 101

TEACHING PLAN CUM REALIZATION

Department: Pharmacy practice
Semester/ year: II/VI-Pharm.D

Name of the faculty: Dr. N. Prathibha
Name of the subject: Pathophysiology

Designation: Asst. Prof

S. No	Unit / Topic	Teaching Planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
I	Pathophysiology of common diseases	01.11.21	01.11.21	1	1	
1	Parkinsonism	01.11.21	01.11.21	1	1	
2	Schizophrenia	03.11.21	03.11.21	1	1	
3	Depression	08.11.21	08.11.21	1	1	
4	Mania	10.11.21	10.11.21	1	1	
5	Hypertension introduction	12.11.21	12.11.21	1	1	
6	Pathophysiology of Hypertension	13.11.21	13.11.21	1	1	
7	Stroke (ischemic and hemorrhage) introduction	15.11.21	15.11.21	1	1	
8	Pathophysiology of Stroke (ischemic and hemorrhage)	17.11.21	17.11.21	1	1	
9	Angina introduction	19.11.21	19.11.21	1	1	
10	Pathophysiology of Angina	20.11.21	20.11.21	1	1	
11	Congestive cardiac failure introduction	22.11.21	22.11.21	1	1	
12	Pathophysiology of CCF	24.11.21	24.11.21	1	1	
13	Atherosclerosis, introduction	26.11.21	26.11.21	1	1	
14	Pathophysiology of Atherosclerosis,	27.11.21	27.11.21	1	1	
15	Myocardial infarction introduction	29.11.21	29.11.21	1	1	
16	Pathophysiology of Myocardial infarction	01.12.21	01.12.21	1	1	
17	Diabetes Mellitus introduction	13.12.21	03.12.21	1	1	
18	Pathophysiology of Diabetes Mellitus	13.12.21	13.12.21	1	1	
21	Peptic ulcer introduction	15.12.21	15.12.21	1	1	
20	Pathophysiology of Peptic ulcer	17.12.21	17.12.21	1	1	
21	Inflammatory bowel diseases	20.12.21	20.12.21	1	1	

Prepared: Faculty / Date



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ENIKEPADU, VIJAYAWADA

TEACHING PLAN CUM REALIZATION

Department: Pharmacy practice
Semester/ year: II/VI-Pharm..D

Name of the faculty: Dr. N. Prathibha
Name of the subject: Pathophysiology

Designation: Asst. Prof

S. No	Unit /Topic	Teaching Planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
22	Pathophysiology of inflammatory bowel diseases	20.12.21	20.12.21	1	1	
23	Alcoholic liver diseases	22.12.21	22.12.21	1	1	
24	Liver Cirrhosis	24.12.21	27.12.21	1	1	
25	Acute renal failure introduction	27.12.21	27.12.21	1	1	
26	Pathophysiology of Acute renal failure	27.12.21	27.12.21	1	1	
27	Chronic renal failure introduction	29.12.21	29.12.21	1	1	
28	Chronic renal failure	03.01.22	03.01.22	1	1	
29	Asthma	05.01.22	05.01.22	1	1	
30	Chronic obstructive airway diseases	07.01.22	07.01.22	1	1	
I MID EXAMINATIONS (17-01-2022 TO 22-01-2022)						
II	Infectious diseases	24.01.22	25.01.22	1	1	
31	Infectious diseases	24.01.22	27.01.22	1	1	
32	Sexually transmitted diseases	28.01.22	27.01.22	1	1	
33	HIV	29.01.22	29.01.22	1	1	
34	Syphilis	31.01.22	31.01.22	1	1	
35	Gonorrhea	02.02.22	01.02.22	1	1	
36	Urinary tract infections,	04.02.22	03.02.22	1	1	
37	Pneumonia	07.02.22	05.02.22	1	1	
38	Typhoid	09.02.22	07.02.22	1	1	
39	Tuberculosis	11.02.22	08.02.22	1	1	
40	Leprosy	14.02.22	14.02.22	1	1	
41	Malaria	16.02.22	15.02.22	1	1	
42	Dysentery (bacterial)	18.02.22	17.02.22	1	1	

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TEACHING PLAN CUM REALIZATION

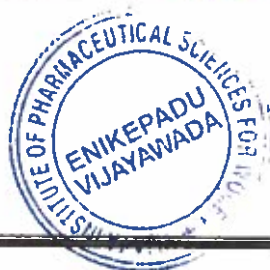
Department: Pharmacy Practice
Semester/ year II/VI-Pharm.D

Name of the faculty: N. Prathibha
Name of the subject: Pathophysiology

Designation: Asst. Prof

S. No	Unit /Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
43	Dysentery (amoebic)	21.02.22	21.02.22	1	1	
44	Hepatitis infective hepatitis	23.02.22	22.02.22	1	1	
45	Environmental and nutritional diseases	25.02.22	24.02.22	1	1	
46	Air pollution and smoking-SO ₂ , NO, NO ₂ , and CO	28.02.22	28.02.22	1	1	
47	Protein calorie malnutrition	02.03.22	03.03.22	1	1	
48	Vitamins	04.03.22	05.03.22	1	1	
49	Obesity	07.03.22	7.03.22	1	1	
50	Pathogenesis of starvation	09.03.22	8.03.22	1	1	
51	Biological effects of radiation	11.03.22	10.03.22	1	1	
52	Biological effects of radiation	21.03.22	21.03.22	1	1	
53	Shock	23.03.22	22.03.22	1	1	
54	Types of shock, mechanisms, stages and management	25.03.22	24.03.22	1	1	
55	Mechanisms, stages and management of shock	28.03.22	28.03.22	1	1	
56	Cancer- introduction	30.03.22	31.03.22	1	1	
57	Differences between benign and malignant tumors	01.04.22	07.04.22	1	1	
58	Invasions and metastasis	04.04.22	11.04.22	1	1	
59	Patterns of spread, disturbances of growth of cells	06.04.22	12.04.22	1	1	
60	Classification of tumors, general biology of tumors	08.04.22	18.04.22	1	1	
II MID EXAMINATION FROM (11.04.2022 TO 16.04.2022)						
61	Spread of malignant tumors	20.04.22	21.04.22	1	1	
62	Etiology and pathogenesis of cancer.	22.04.22	23.04.22	1	1	

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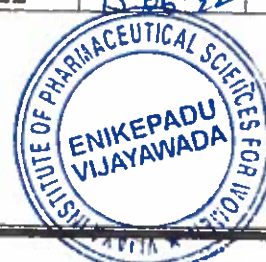
Department: Pharmacy practice
Semester/ year: II/VI-Pharm..D

Name of the faculty: Dr. N. Prathibha
Name of the subject: Pathophysiology

Designation: Asst.Prof

S. No	Unit/topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
63	Basic principles of cell injury	25.04.22	23.04.22	1	1	
64	Basic principles of cell injury and Adaptation causes	27.04.22	05.05.22	1	1	
65	pathogenesis and morphology of cell injury	29.04.22	07.05.22	1	1	
66	Abnormalities in lipoproteinemia	02.05.22	07.05.22	1	1	
67	Glycogen infiltration and glycogen storage disease	04.05.22	17.05.22	1	1	
68	cellular adaptation	06.05.22	19.05.22	1	1	
69	Atrophy and hypertrophy	09.05.22	19.05.22	1	1	
II.	Inflammation	11.05.22	23.05.22	1	1	
70	Pathogenesis of acute Inflammation	13.05.22	24.05.22	1	1	
71	Chemical mediators in Inflammation	16.05.22	26.05.22	1	1	
72	pathogenesis of chronic inflammation	18.05.22	30.05.22	1	1	
73	Wound healing mechanism	20.05.22	31.05.22	1	1	
74	Factors affecting wound healing	23.05.22	02.06.22	1	1	
III	Diseases of Immunity	25.05.22	04.06.22	1	1	
75	Introduction to T and B cells	27.05.22	06.06.22	1	1	
76	MHC proteins or transplantation antigens	30.05.22	07.06.22	1	1	
77	Immune Tolerance	01.06.22	08.06.22	1	1	
78	Hypersensitivity	03.06.22	09.06.22	1	1	
79	Hypersensitivity- type I, II, III, IV	06.06.22	10.06.22	1	1	
80	Biological significance of hypersensitivity	08.06.22	10.06.22	1	1	
81	Allergy due to food, chemicals and drugs	10.06.22	10.06.22	1	1	
82	Auto-Immunity- Mechanism	13.06.22	13.06.22	1	1	

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TEACHING PLAN CUM REALIZATION

Department: Pharmacy practice
Semester/ year: II/VI-Pharm..D

Name of the faculty: Dr. N. Prathibha
Name of the subject: Pathophysiology

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)
83	Criteria for autoimmunity	15.06.22	15.06.22	1	1	
84	Classification of autoimmune diseases	17.06.22	17.06.22	1	1	
85	Transplantation and immunologic tolerance	20.06.22	20.06.22	1	1	
86	Allograft rejections	22.06.22	22.06.22	1	1	
87	Transplantation antigens	24.06.22	24.06.22	1	1	
88	Mechanism of rejection of allograft	27.06.22	27.06.22	1	1	
89	Acquired immuno deficiency virus	29.06.22	28.06.22	1	1	
90	Amyloidosis	01.07.22	29.06.22	1	1	

III MID EXAMINATIONS (04-07-2022 TO 09-07-2022)


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