

TEACHING PLAN CUM REALIZATION

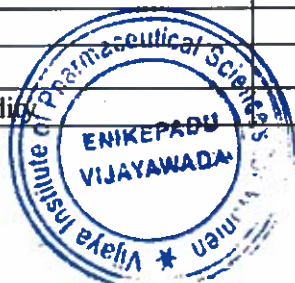
Department: B Pharmacy
Semester/ year: II year / I Sem

Name of the faculty: K.Suneetha
Name of the subject: Pharmaceutical Organic Chemistry-II

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)
COMMENCEMENT OF I MID SYLLABUS						
1	Introduction to Aromatic hydrocarbons	14-11-2022	14/11/22	1	1	
2	Benzene and its derivatives	15-11-2022	15/11/22	1	1	
3	Analytical evidences in the derivation of structure of benzene	16-11-2022	16/11/22	1	1	
4	Synthetic evidences in the derivation of structure of benzene	17-11-2022	17/11/22	1	1	
5	Other evidences in the derivation of structure of benzene	18-11-2022	18/11/22	1	1	
6	Orbital picture of benzene	21-11-2022	21/11/22	1	1	
7	Resonance in benzene	22-11-2022	22/11/22	1	1	
8	Aromatic character in benzene	23-11-2022	23/11/22	1	1	
9	Huckel's rule	24-11-2022	24/11/22	1	1	
10	Reactions of benzene	25-11-2022	25/11/22	1	1	
11	Nitration	28-11-2022	28/11/22	1	1	
12	Sulphonation	29-11-2022	29/11/22	1	1	
13	Halogenation and reactivity	30-11-2022	30/11/22	1	1	
14	Friedelcrafts alkylation- reactivity	01-12-2022	01/12/22	1	1	
15	Limitations, Friedelcrafts acylation	02-12-2022	02/12/22	1	1	
16	Substituents of benzene	05-12-2022	05/12/22	1	1	
17	Effect of substituents on reactivity	06-12-2022	06/12/22	1	1	
18	Orientation of mono substituted benzene compounds towards electrophilic substitution reaction	07-12-2022	07/12/22	1	1	
19	Orientation of disubstituted benzene compounds	08-12-2022	08/12/22	1	1	
20	Structure and uses of DDT	09-12-2022	09/12/22	1	1	
21	Structure and uses of Saccharin	12-12-2022	12/12/22	1	1	
22	Structure and uses of BHC	13-12-2022	13/12/22	1	1	
23	Structure and uses of Chloramine	14-12-2022	14/12/22	1	1	
24	Acidity of phenols, effect of substituents on acidity	15-12-2022	15/12/22	1	1	

K. Suneetha
Prepared: Faculty / Date



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PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521 102

TEACHING PLAN CUM REALIZATION

Department: B Pharmacy
Semester/ year: II year / I Sem

Name of the faculty: K Suneetha
Name of the subject: Pharmaceutical Organic Chemistry-II

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	Qualitative tests, Structure and uses of phenol	16-12-2022	16/12/22	1	1	
26	Qualitative tests, Structure and uses of cresols	19-12-2022	19/12/22	1	1	
27	Qualitative tests, Structure and uses naphthols	20-12-2022	20/12/22	1	1	
28	Qualitative tests, Structure and uses of Resorcinol	21-12-2022	21/12/22	1	1	
29	Qualitative tests, Structure and uses	22-12-2022	22/12/22	1	1	
30	Basicity of amines	23-12-2022	23/12/22	1	1	
COMMENCEMENT OF I MID EXAMINATIONS (26.12.2022 - 31.12.2022)						
31	Effect of substituents on basicity	02-01-2023	02/01/23	1	1	
32	Synthetic uses of aryl diazonium salts	03-01-2023	03/01/23	1	1	
33	Fatty acids – reactions	04-01-2023	04/01/23	1	1	
34	Hydrolysis, Hydrogenation of oils	05-01-2023	05/01/23	1	1	
35	Saponification and Rancidity of oils	06-01-2023	06/01/23	1	1	
36	Drying oils	09-01-2023	09/01/23	1	1	
37	Acid value	10-01-2023	10/01/23	1	1	
38	Saponification value	11-01-2023	11/01/23	1	1	
39	Saponification value	12-01-2023	18/01/23	1	1	Sankranti Holidays.
40	Ester value	13-01-2023	19/01/23	1	1	
41	Iodine value	16-01-2023	20/01/23	1	1	
42	Acetyl value	17-01-2023	21/01/23	1	1	
43	Reichert Meissl (RM) value – significance	18-01-2023	27/01/23	1	1	
44	Principle involved in the determination of RM value	19-01-2023	27/01/23	1	1	

K. Suneetha
Prepared: Faculty / Date



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TEACHING PLAN CUM REALIZATION

Department: B Pharmacy
Semester/ year: II year / I Sem

Name of the faculty: K Suneetha
Name of the subject: Pharmaceutical Organic Chemistry-II

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)
45	Introduction to Polynuclear hydrocarbons	20-01-2023	30/1/23	1	1	
46	Synthesis of Polynuclear hydrocarbons	23-01-2023	31/1/23	1	1	
47	Reactions of Polynuclear hydrocarbons	24-01-2023	01/02/23	1	1	
48	Structure and medicinal uses of Naphthalene	25-01-2023	02/02/23	1	1	
49	Structure and medicinal uses of Anthracene	27-01-2023	02/02/23	1	1	
50	Structure and medicinal uses of diphenylmethane	30-01-2023	03/02/23	1	1	
51	Structure and medicinal uses of Triphenylmethane	31-01-2023	03/02/23	1	1	
52	Introduction to Cycloalkanes	01-02-2023	06/02/23	1	1	
53	Stabilities of Cycloalkanes	03-02-2023	06/02/23	1	1	
54	Baeyer's strain theory	06-02-2023	08/02/23	1	1	
55	Limitation of Baeyer's strain theory	07-02-2023	08/02/23	1	1	
56	Coulson and Moffitt's modification	08-02-2023	09/02/23	1	1	
57	Sachse Mohr's theory	09-02-2023	10/02/23	1	1	
58	Reactions of cyclopropane	10-02-2023	18/02/23	1	1	
59	Reactions of cyclobutane	13-02-2023	14/02/23	1	1	
60	Reactions of other cycloalkanes	14-02-2023	15/02/23	1	1	
COMMENCEMENT OF II MID EXAMS (20.02.2023-25.02.2023)						

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TEACHING PLAN CUM REALIZATION

Department: B Pharmacy
Semester/ year: II year / I Sem

Name of the faculty: K Suneetha
Name of the subject: Pharmaceutical Organic Chemistry -II

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)
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18	Orientation of mono substituted benzene compounds towards electrophilic substitution reaction	07-12-2022	07/12/22	1	1	
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24	Acidity of phenols, effect of substituents on acidity	15-12-2022	15/12/22	1	1	

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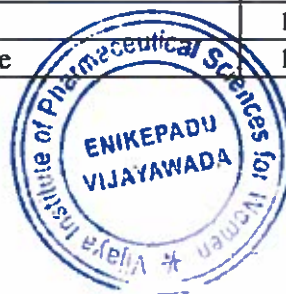
Department: B Pharmacy
Semester/ year: II year / I Sem

Name of the faculty: K Suneetha
Name of the subject: Pharmaceutical Organic Chemistry-II

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38	Saponification value	11-01-2023	11/01/23	1	1	
39	Saponification value	12-01-2023	18/01/23	1	1	sanctiary Holiday
40	Ester value	13-01-2023	19/01/23	1	1	
41	Iodine value	16-01-2023	20/01/23	1	1	
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44	Principle involved in the determination of RM value	19-01-2023	31/01/23	1	1	

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58	Reactions of cyclopropane	10-02-2023	13/02/23	1	1	
59	Reactions of cyclobutane	13-02-2023	14/02/23	1	1	
60	Reactions of other cycloalkanes	14-02-2023	15/02/23	1	1	
COMMENCEMENT OF II MID EXAMS (20.02.2023-25.02.2023)						

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ENIKEPADU, VIJAYAWADA - 521 108

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: Formulation Development of Pharmaceutical and Cosmetic Products

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: Preformulation Studies: Introduction	08-05-23	8/5/23	1	1	
2	Molecular optimization of APIs	10-05-23	10/5/23	1	1	
3	Molecular optimization of APIs	11-05-23	12/5/23	1	1	OD
4	Crystal morphology and variations	12-05-23	15/5/23	1	1	
5	Crystal morphology and variations	15-05-23	17/5/23	1	1	
6	Powder flow properties	17-05-23	17/5/23	1	1	
7	Powder flow properties	18-05-23	18/5/23	1	1	
8	Structure modification- Salt form of a drug	19-05-23	19/5/23	1	1	
9	Structure modification- Prodrug	20-05-23	20/5/23	1	1	
10	Drug-excipient compatibility studies	22-05-23	22/5/23	1	1	
11	Drug-excipient compatibility studies	24-05-23	24/5/23	1	1	
12	Methods of determination	25-05-23	25/5/23	1	1	
13	UNIT-V: Cosmetics	26-05-23	26/5/23	1	1	
	Formulation, Evaluation and packaging of Tooth powders					
14	Formulation, Evaluation and packaging of Pastes	27-05-23	27/5/23	1	1	
15	Formulation, Evaluation and packaging of Gels	29-05-23	29/5/23	1	1	
16	Formulation, Evaluation and packaging of Nail-polish	31-05-23	31/5/23	1	1	

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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

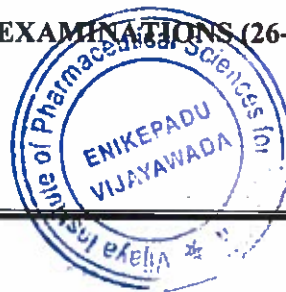
Semester/ year: II / I

Name of the subject: Formulation Development of Pharmaceutical and Cosmetic Products

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	Formulation, Evaluation and packaging of Baby care products	01-06-23	1/6/23	1	1	
18	Formulation, Evaluation and packaging of Lipsticks	02-06-23	2/6/23	1	2	
19	Formulation, Evaluation of Eyelashes, , Moisturizing cream	03-06-23	3/6/23	1	1	
20	Formulation, Evaluation of vanishing cream, cold cream	05-06-23	5/6/23	1	1	
21	Formulation, Evaluation of Shampoo	07-06-23	7/6/23	1	1	
22	Formulation, Evaluation of Soaps and syndetbars	09-06-23	9/6/23	1	1	
23	UNIT-II: Introduction to additives	12-06-23	12/6/23	1	1	
24	Study of different formulation additives	14-06-23	14/6/23	1	1	
25	Study of different formulation additives	16-06-23	16/6/23	1		Leave
26	Study of different formulation additives related to Parentral formulation	17-06-23	17/6/23	1	2	
27	Factors influencing their incorporation	19-06-23	19/6/23	1	1	
28	Factors influencing their incorporation	21-06-23	21/6/23	1	1	
29	Factors influencing their incorporation	23-06-23	23/6/23	1	1	
30	Role of Excipients in formulation development and processing	24-06-23	24/6/23	1	1	

I MID EXAMINATIONS (26-06-23 to 30-06-23)

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: Formulation Development of Pharmaceutical and Cosmetic Products

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	Role of Excipients in formulation development and processing	01-07-23	1/7/23	1	1	
32	New developments in excipient science	03-07-23	3/7/23	1	1	
33	Design of experiments – factorial design for product and process development.	05-07-23	5/7/23	1	1	
34	Design of experiments – factorial design for product and process development.	06-07-23	6/7/23	1	1	
35	Design of experiments – factorial design for product and process development.	07-07-23	7/7/23	1	1	
36	UNIT-III: Introduction to Solubility	10-07-23	10/7/23	1	1	
37	Introduction to Solubility, Importance	12-07-23	12/7/23	1	1	
38	Experimental determination	13-07-23	13/7/23	1	1	
39	Phase- solubility analysis	14-07-23	14/7/23	1	1	
40	pH-solubility profile	15-07-23	15/7/23	1	1	
41	Solubility Enhancement techniques	17-07-23	17/7/23	1	1	
42	Solubility Enhancement techniques- salt formation, complexation	19-07-23	19/7/23	1	1	
43	Solubility Enhancement techniques -solid dispersion, Micellar solubilization	20-07-23	20/7/23	1	1	
44	Solubility Enhancement techniques-Hydrotrophy	21-07-23	21/7/23	1	1	
45	Theories and mechanisms of dissolution	22-07-23	22/7/23	1	1	

Prepared: Faculty / Date



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VIPW/7.5/1/RC04

TEACHING PLAN CUM REALIZATION

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

Name of the faculty: P. M. Naga Lakshmi

Designation: Asst. Prof

Name of the subject: Formulation Development of Pharmaceutical and Cosmetic Products

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	In-vitro dissolution testing models – sink and non-sink.	24-07-23	24/7/23	1	1	
47	Factor influencing dissolution	25-07-23	26/7/23	1		Bandh
48	Dissolution test apparatus	26-07-23	27/7/23	1	1	f
49	Dissolution test apparatus	27-07-23	27/7/23	1	1	
50	Data handling and correction factor, Biorelevant media	28-07-23	28/7/23	1	1	
51	In-vitro and in- vivo correlations, levels of correlations.	31-07-23	4/8/23	1	1	OD
52	UNIT-IV: Introduction to Product Stability	01-08-23	5/8/23	1	1	
53	Degradation kinetics, mechanisms	02-08-23	7/8/23	1	1	
54	Stability testing of drugs and pharmaceuticals	03-08-23	7/8/23	1		
55	Factors influencing-media effects and pH effects	04-08-23	7/8/23	1	1	
56	Accelerated stability studies	05-08-23	8/8/23	1	1	
57	Accelerated stability studies-interpretation of kinetic data	07-08-23	8/8/23	1	1	
58	Solid state stability and shelflife assignment	09-08-23	9/8/23	1	1	
59	Stability protocols	10-08-23	10/8/23	1	2	
60	Stability protocols Reports and ICH Guidelines	11-08-23	11/8/23	1	1	

II MID EXAMINATIONS (14-08-23 to 19-08-23)

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VIPW/7.5/1/RC04

Department: Pharmacy

Name of the Faculty: Mrs. S. ARCHANA

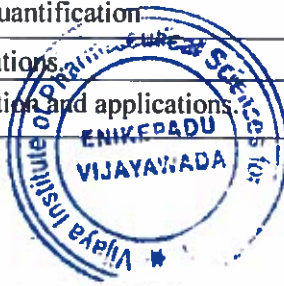
Designation: Asst. Professor

Semester/ year: II-I M. Pharmacy

Name of the subject: ADVANCED INSTRUMENTAL ANALYSIS

S.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
1.	HPLC-principle, instrumentation, applications	01/05/23	1/5/23	1	1	
2.	System suitability factors- peak shapes, capacity factor, selectivity	02/05/23	2/5/23	1	1	
3.	Plate height, resolution, column problems	03/05/23	3/5/23	1	1	
4.	Gradient HPLC, HPLC solvents,	04/05/23	4/5/23	1	1	
5.	Sample preparation, method development	08/05/23	8/5/23	1	1	
6.	New developments in HPLC role Ultra liquid chromatography	09/05/23	9/5/23	1	1	
7.	New developments in HPLC role Nano liquid chromatography	10/05/23	10/5/23	1	1	
8.	Immobilized polysaccharide CSP'S,	11/05/23	11/5/23	1	1	
9.	RP chiral method development and HILIC approaches	15/05/23	15/5/23	1	1	
10	HPLC - Trouble shooting	16/05/23	16/5/23	1	1	
11	Advancements in enantiomeric separations	17/05/23	17/5/23	1	1	
12	Preparative HPLC, practical aspects of preparative HPLC	18/05/23	18/5/23	1	1	
13	HPLC in chiral analysis and applications	22/05/23	22/5/23	1	1	
14	BIOCHROMATOGRAPHY : General Principles, SP & MP	23/05/23	23/5/23	1	1	
15	Ion Exchange Chromatography	24/05/23	24/5/23	1	1	
16	Ion Pair Chromatography	25/05/23	25/5/23	1	1	
17	Affinity Chromatography	29/05/23	29/5/23	1	1	
18	Size Exclusion Chromatography	30/05/23	30/5/23	1	1	
19	Gas Chromatography: principles, Instrumentation, Derivatization	31/05/23	31/5/23	1	1	
20	Head space sampling, columns , detectors and quantification	05/06/23	5/6/23	1	1	
21	HPTLC- Principles, Instrumentation and applications	06/06/23	6/6/23	1	1	
22	SCF chromatography- Principles, Instrumentation and applications	07/06/23	7/6/23	1	1	

Prepared: Faculty / Date




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TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: Pharmacy

Name of the Faculty: Mrs. S. Archana

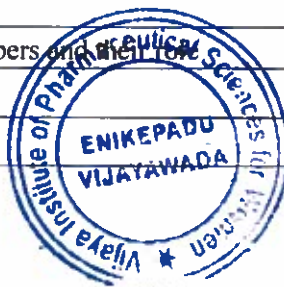
Designation: Assoc. Professor


Semester/ year: II-I M. Pharmacy

Name of the subject: ADVANCED INSTRUMENTAL ANALYSIS

S.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
23.	Capillary electrophoresis- basics, CE characteristics, principles	08/06/23	8/6/23	1	1	
24.	Methods and modes of CE	12/06/23	12/6/23	1	1	
25.	Crown ethers as buffer additives in CE	13/06/23	13/6/23	1	1	
26.	general considerations and method development	14/06/23	14/6/23	1	1	
27.	CE-MS hyphenation	15/06/23	15/6/23	1	1	
28.	MASS SPECTROSCOPY- Principle, Instrumentation	19/06/23	19/6/23	1	1	
29.	Different types of ionization –Electron Impact, Chemical ionization	20/06/23	20/6/23	1	1	
30.	Field, FAB, MALDI ionization	21/06/23	21/6/23	1	1	
31.	APCI, ESI, APCI ionization	22/06/23	22/6/23	1	1	
32.	Fragmentation and rules, metastable ions, isotopic peaks	27/06/23	27/06/23	1	1	
COMMENCEMENT OF I MID EXAM (24.06.2023 – 26.06.2023)						
33.	LC-MS Hyphenation	28/06/23	28/6/23	1	1	
34.	DART- MS	30/06/23	30/6/23	1	1	
35.	Mass analysers- Quadrapole, TOF	01/07/23	1/7/23	1	1	
36.	FT-ICR, ION TRAP, ORBITRAP	03/07/23	3/7/23	1	1	
37.	Tandem mass- QqQ, TOF-TOF	04/07/23	4/7/23	1	1	
38.	Q-IT, Q-TOF, LTQ-FT, LTQ-Orbitrap	05/07/23	5/7/23	1	1	
39.	Mass applications	06/07/23	6/7/23	1	1	
40.	NMR SPECTROSCOPY – Quantum numbers and chemical shift	10/07/23	10/7/23	1	1	
41.	Principle, Instrumentation and applications	11/07/23	11/7/23	1	1	
42.	Solvent requirements, NMR signals	12/07/23	12/7/23	1	1	

Prepared: Faculty / Date




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 ENIKEPADU VIJAYAWADA

TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: Pharmacy

Name of the Faculty: Mrs. S.Archana

Designation: Assoc. Professor


Semester/ year: II-I M. Pharmacy

Name of the subject: ADVANCED INSTRUMENTAL ANALYSIS

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.	Relaxation process	13/07/23	13/7/23	1	1	
44.	Chemical shift and factors affecting chemical shift	18/07/23	18/7/23	1	1	
45.	Spin Spin coupling, Coupling constant	19/07/23	19/7/23	1	1	
46.	Nuclear magnetic double resonance	20/07/23	20/7/23	1	1	
47.	Principles of FT-NMR	21/07/23	21/7/23	1	1	
48.	Principles of ¹³ CNMR	24/07/23	24/7/23	1	1	
49.	1 D NMR principle and importance, demerits	25/07/23	25/7/23	1	1	
50.	2 D NMR principle and comparison	26/07/23	26/7/23	1	1	
51.	Types of 2D NMR Spectroscopy	27/07/23	27/7/23	1	1	
52.	NOESY NMR	31/07/23	31/07/23	1	1	
53.	Rotating Frame Nuclear Overhauser Effect Spectroscopy	01/08/23	1/8/23	1	1	
54.	Higher dimensional methods	02/08/23	2/8/23	1	1	
55.	COSY NMR	03/08/23	3/8/23	1	1	
56.	Exclusive correlation spectroscopy	04/08/23	4/8/23	1	1	
57.	Total correlation spectroscopy	07/08/23	7/8/23	1	1	
58.	Interpretation of NMR	08/08/23	8/8/23	1	1	
59.	Applications of NMR spectroscopy	09/08/23	9/8/23	1	1	
60.	LC-NMR Hyphenation	10/08/23	10/8/23	1	1	



Prepared: Faculty / Date
Archana


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ANNOUNCEMENT OF II MID EXAM (14.08.23 - 19.08.23)

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)
1	Introduction to cell biology	01.11.2022	1/11/22	1	1	
2	Structure and functions of cell	02.11.2022	2/11/22	1	1	
3	Cell organelles	03.11.2022	3/11/22	1	1	
4	Genome organization	07.11.2022	7/11/22	1	1	
5	Gene expression and it's Regulation	08.11.2022	8/11/22	1	1	
6	Importance of Si RNA & Micro RNA	09.11.2022	9/11/22	1	1	
7	Gene Mapping	10.11.2022	10/11/22	1	1	
8	Gene Sequencing	14.11.2022	14/11/22	1	1	
9	Cell cycle and it's Regulation	15.11.2022	15/11/22	1	1	
10	Cell death	16.11.2022	16/11/22	1	1	
11	Intrinsic pathway	17.11.2022	17/11/22	1	1	
12	Extrinsic pathway	21.11.2022	21/11/22	1	1	
13	Apoptosis, Necrosis	22.11.2022	22/11/22	1	1	
14	Autophagy	23.11.2022	23/11/22	1	1	
15	Cell signaling	28.11.2022	28/11/22	1	1	
16	Intercellular & intracellular signaling pathways	29.11.2022	29/11/22	1	1	
17	Ligand gated ion channel	30.11.2022	30/11/22	1	1	
18	G protein-coupled receptors	01.12.2022	1/12/22	1	1	
19	Tyrosine kinase receptors	05.12.2022	5/12/22	1	1	

S. Sundar

Prepared: Faculty/ Date



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ENIKEPADU, VIJAYAWADA - 521 108

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)
20	Nuclear receptors	06.12.2022	6/12/22	1	1	
21	Secondary messengers –Cyclic AMP	08.12.2022	8/12/22	1	1	
22	Cyclic GMP	12.12.2022	12/12/22	1	1	
23	Calcium Ion, Inositol 1,4,5 tri phosphate	13.12.2022	13/12/22	1	1	
24	Nitric oxide, Diacyl Glycerol	14.12.2022	14/12/22	1	1	
25	Cyclic AMP Pathway	15.12.2022	15/12/22	1	1	
26	Mitogen Activated Protein Kinase Pathway (MAPK)	19.12.2022	19/12/22	1	1	
27	Janus kinase (JAK)	20.12.2022	20/12/22	1	1	
28	Signal transducer and activator of Transcription (STAT)	21.12.2022	21/12/22	1	1	
29	Principle and applications of Genomic tools	22.12.2022	22/12/22	1	1	
30	DNA Electrophoresis	23.12.2022	23/12/22	1	1	
I MID EXAMINATION FROM (26/12/2022 TO 31/12/2022) AND COMMENCEMENT OF II MID CLASS WORK						
31	PCR (Reverse Transcription, Real Time)	02.01.2023	2/1/23	1	1	
32	Micro array technique	03.01.2023	3/1/23	1	1	
33	SDS Page	04.01.2023	4/1/23	1	1	
34	ELISA	05.01.2023	5/1/23	1	1	
35	Western Blotting,	09.01.2023	9/1/23	1	1	

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Prepared: Faculty/ Date



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ENIKEPADU, VIJAYAWADA - 521 111

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	10.01.2023	10/1/23	1	1	
37	Various types of vectors	11.01.2023	11/1/23	1	1	
38	Application of Recombinant DNA Technology	12.01.2023	12/1/23	1	1	
39	Gene Therapy, Types of gene transfer techniques	17.01.2023	17/1/23	1	1	
40	Clinical Applications	18.01.2023	18/1/23	1	1	
41	Recent Advances in gene therapy	19.01.2023	19/1/23	1	1	
42	Pharmacogenomics	23.01.2023	23/1/23	1	1	
43	Gene Mapping and cloning disease gene	24.01.2023	24/1/23	1	1	
44	Genetic variation and it's role in health and pharmacology	25.01.2023	25/1/23	1	1	
45	Polymorphism affecting drug metabolism	27.01.2023	27/1/23	1	1	
46	Genetic variation in G protein coupled receptors	30.01.2023	30/1/23	1	1	
47	Genomics, Proteomics	31.01.2023	31/1/23	1	1	
48	Metabolomics, Fuctionomics	01.02.2023	1/2/23	1	1	
49	Nutrigenomics, Immunotherapeutics	02.02.2023	2/2/23	1	1	
50	Basic equipemts used in cell culture	03.02.2023	3/2/23	1	1	

S. Sundar
Prepared: Faculty/ Date



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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,	06.02.2023	6/2/23	1	1	
52	Types of cell culture	07.02.2023	7/2/23	1	1	
53	Procedure of cell culture	08.02.2023	8/2/23	1	1	
54	Isolation of cells, Subculture	09.02.2023	9/2/23	1	1	
55	Cryopreservation,	10.02.2023	10/2/23	1	1	
56	Cell viability assays	13.02.2023	13/2/23	1	1	
57	Glucose uptake assay	14.02.2023	14/2/23	1	1	
58	Calcium influx assay	15.02.2023	15/2/23	1	1	
59	Flow cytometry	16.02.2023	16/2/23	1	1	
60	Biosimilars	17.02.2023	17/2/23	1	1	

II MID EXAMINATION FROM (20/02/2023 TO 25/02/2023)



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TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: Pharmaceutical Regulatory Affairs

Name of the Faculty: B. Hemalatha

Designation: Assoc. Professor

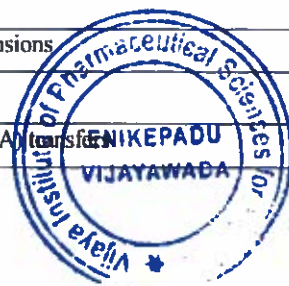
Semester/ year: II-II M. Pharmacy

Name of the subject: Regulatory Aspects of Drugs and Cosmetics

S. 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 USA and Canada: Organization structure and functions of FDA	01/05/23	1/5/23	1	1	
2.	Federal register and Code of Federal Regulations (CFR)	02/05/23	2/5/23	1	1	
3.	History and evolution of United States Federal, Food Drug and Cosmetic Act (FFDCA),	03/05/23	3/5/23	1	1	
4.	Hatch Waxman act and Orange book	04/05/23	4/5/23	1	1	
5.	Purple book, Drug Master Files (DMF) system	08/05/23	8/5/23	1	1	
6.	Process for Investigational New Drug (IND)	09/05/23	9/5/23	1	1	
7.	New Drug Application (NDA)	10/05/23	10/5/23	1	1	
8.	Abbreviated New Drug Application (ANDA)	11/05/23	11/5/23	1	1	
9.	Supplemental New Drug Application (SNDA)	15/05/23	15/5/23	1	1	
10.	Regulatory requirements for Orphan drugs and Combination Products	16/05/23	16/5/23	1	1	
11.	Changes to an approved NDA / ANDA	17/05/23	17/5/23	1	1	
12.	Regulatory considerations for manufacturing, packaging and labeling of pharmaceuticals in USA	18/05/23	18/5/23	1	1	
13.	Legislation and regulations for import, manufacture, distribution and sale of cosmetics in USA and Canada	22/05/23	22/5/23	1	1	
14.	Unit II - European Union & Australia:	23/05/23	23/5/23	1	1	
15.	Organization and structure of EMA & EDQM	24/05/23	24/5/23	1	1	
16.	Active Substance Master Files (ASMF) system in EU	25/05/23	24/5/23	1	1	
17.	Content and approval process of IMPD	29/05/23	29/5/23	1	1	
18.	Marketing Authorization procedures in EU	30/05/23	30/5/23	1	1	
19.	Eudralex directives for human medicines, Variations & extensions	31/05/23	31/5/23	1	1	
20.	Compliance of European Pharmacopoeia (CEP)	05/06/23	5/6/23	1	1	
21.	Certificate of Suitability (CoS), Marketing Authorization (MA) transfer	06/06/23	6/6/23	1	1	

Prepared By: Faculty / Date

B. Hemalatha




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TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: Pharmaceutical Regulatory Affairs

Name of the Faculty: B. Hemalatha

Designation: Assoc. Professor

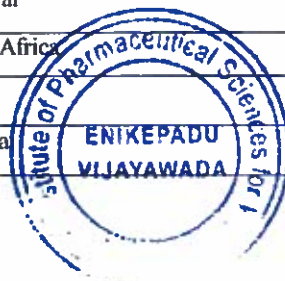
Semester/ year: II-II M. Pharmacy

Name of the subject: Regulatory Aspects of Drugs and Cosmetics

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.	Qualified Person (QP) in EU	07/06/23	7/6/23	1	1	
23.	Regulations for import, manufacture, distribution and sale of cosmetics in European Union	08/06/23	8/6/23	1	1	
24.	Regulations for import, manufacture, distribution and sale of cosmetics in Australia	12/06/23	12/6/23	1	1	
25.	Unit – III Japan: Organization of the PMDA	13/06/23	13/6/23	1	1	
26.	Pharmaceutical Laws and regulations	14/06/23	14/6/23	1	1	
27.	Types of registration applications	15/06/23	15/6/23	1	1	
28.	DMF system in Japan	19/06/23	19/6/23	1	1	
29.	Drug regulatory approval process	20/06/23	20/6/23	1	1	
30.	Regulatory considerations for manufacturing, packaging and labeling of pharmaceuticals in Japan	21/06/23	21/6/23	1	1	
31.	Post marketing surveillance in Japan	22/06/23	22/6/23	1	1	
COMMENCEMENT OF I MID EXAM (24.06.2023 to 26.06.2023)						
32.	Regulations for import, manufacture, distribution and sale of cosmetics in Japan	27/06/23	27/6/23	1	1	
33.	UNIT: IV Emerging Market: Introduction, Countries covered	28/06/23	28/6/23	1	1	
34.	Study of various committees (ASEAN, APEC, EAC, GCC, PANDRH, SADC)	30/06/23	30/6/23	1	1	
35.	WHO: GMP	01/07/23	1/7/23	1	1	
36.	Regulatory Requirements for registration of drugs	03/07/23	3/7/23	1	1	
37.	Post approval requirements in WHO through prequalification programme	04/07/23	4/7/23	1	1	
38.	Certificate of Pharmaceutical Product (CoPP) - General	05/07/23	5/7/23	1	1	
39.	Certificate of Pharmaceutical Product (CoPP) - South Africa	06/07/23	6/7/23	1	1	
40.	Certificate of Pharmaceutical Product (CoPP) - Egypt	10/07/23	10/7/23	1	1	
41.	Certificate of Pharmaceutical Product (CoPP) - Algeria	11/07/23	11/7/23	1	1	

Prepared By: Faculty / Date

B. Hemalatha



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TEACHING PLAN CUM REALIZATION

VIPW/7.5/1/RC04

Department: Pharmaceutical Regulatory Affairs

Name of the Faculty: B. Hemalatha

Designation: Assoc. Professor

Semester/ year: II-II M. Pharmacy

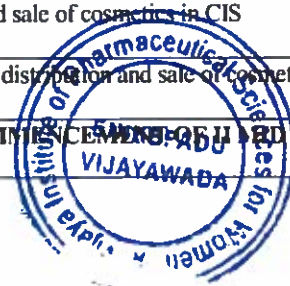
Name of the subject: Regulatory Aspects of Drugs and Cosmetics

S. No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
42.	Certificate of Pharmaceutical Product (CoPP) - Morocco,	12/07/23	12/7/23	1	1	
43.	Certificate of Pharmaceutical Product (CoPP) - Nigeria	13/07/23	13/7/23	1	1	
44.	Certificate of Pharmaceutical Product (CoPP) - Kenya	18/07/23	18/7/23	1	1	
45.	Certificate of Pharmaceutical Product (CoPP) - Botswana	19/07/23	19/7/23	1	1	
46.	Unit -V Brazil, ASEAN, CIS and GCC Countries: Introduction to ACTD	20/07/23	20/7/23	1	1	
47.	Requirements for registration of drugs and post approval requirements in China	21/07/23	21/7/23	1	1	
48.	Requirements for registration of drugs and post approval requirements in South Korea	24/07/23	24/7/23	1	1	
49.	Association of Southeast Asian Nations (ASEAN)	25/07/23	25/7/23	1	1	
50.	CIS (Commonwealth Independent States)	26/07/23	26/7/23	1	1	
51.	Post approval requirements in CIS countries	27/07/23	27/7/23	1	1	
52.	GCC (Gulf Cooperation Council) for Arab states	31/07/23	31/7/23	1	1	
53.	Marketing authorization requirements for drugs in Saudi Arabia	01/08/23	1/8/23	1	1	
54.	Post approval requirements in Saudi Arabia	02/08/23	2/8/23	1	1	
55.	Marketing authorization requirements for drugs in UAE	03/08/23	3/8/23	1	1	
56.	Post approval requirements in UAE	04/08/23	4/8/23	1	1	
57.	Legislation and regulations for import, manufacture, distribution and sale of cosmetics in Brazil.	07/08/23	7/8/23	1	1	
58.	Regulations for import, manufacture, distribution and sale of cosmetics in ASEAN Countries.	08/08/23	8/8/23	1	1	
59.	Regulations for import, manufacture, distribution and sale of cosmetics in CIS Countries.	09/08/23	9/8/23	1	1	
60.	Legislation and regulations for import, manufacture, distribution and sale of cosmetics in GCC	10/08/23	10/8/23	1	1	

COMPLETION OF IIND SEMESTER EXAM (14.08.2023 to 19.08.2023)

Prepared By: Faculty / Date

B. Hemalatha



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TEACHING PLAN CUM REALIZATION

Department: Pharmaceutical Organic Chemistry

Name of the faculty: Mrs. D PRASANNA

Designation: Asst. Prof.

Semester/ year: 1 year Pharm D

Name of the subject: Pharmaceutical Organic Chemistry

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	03-01-2023	3/1/23	1	1	
2.	Structures and Physical properties	04-01-2023		1		
3.	Polarity of bonds, polarity of molecules, M.P	04-01-2023	4/1/23	1	1	
4.	Inter molecular forces, B.P	09-01-2023	9/1/23	1	1	
5.	Solubility, non ionic solutes and ionic solutes	10-01-2023		1		
6.	Protic and aprotic Solvents, ion pairs	11-01-2023	10/1/23	1	1	
7.	Tutorial	11-01-2023	11/1/23	1	1	
8.	Acids and bases	18-01-2023		1		
9.	Lowry Bronsted theory	18-01-2023	18/1/23	1	1	
10.	Isomerism	23-01-2023	19/1/23	1	1	
11.	Tutorial	24-01-2023	20/1/23	1	1	
12.	Nomenclature of Alkanes, Alkenes, Dienes, Alkynes	25-01-2023	21/1/23	1	1	
13.	Nomenclature of Alcohols, Aldehydes, Ketone	25-01-2023	23/1/23	1	1	
14.	Nomenclature of Amides, Amines, Phenols, Alkyl Halides	30-01-2023		1		
15.	Tutorial	31-01-2023	24/1/23	1	1	
16.	Nomenclature of Carboxylic Acid, Esters, Acid Chlorides	01-02-2023	25/1/23	1	1	
17.	Free radicals chain reactions of alkane	01-02-2023		1		
18.	Mechanism	06-02-2023	7/2/23	1	1	
19.	Tutorial	07-02-2023	8/2/23	1	1	
20.	Relative reactivity	08-02-2023	9/2/23	1	1	

Prepared: Faculty / Date

3/1/23



PRINCIPAL
VIJAYA INSTITUTE OF
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TEACHING PLAN CUM REALIZATION

Department: Pharmaceutical Organic Chemistry

Name of the faculty: Mrs. D PRASANNA

Designation: Asst. Prof.

Semester/ year: 1 year Pharm D

Name of the subject: Pharmaceutical Organic Chemistry

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
21.	Stability	08-02-2023	9/2/23	1	1	
22.	Introduction to Alicyclic compounds	13-02-2023	9/2/23	1	1	
23.	Tutorial	14-02-2023	9/2/23	1	1	
24.	Preparations of cyclo alkane	15-02-2023	15/2/23	1	1	
25.	Bayer strain theory	15-02-2023	15/2/23	1	1	
26.	orbital picture of angle strain	20-02-2023	15/2/23	1	1	
27.	Tutorial	21-02-2023	9/20/2/23	1	1	
28.	Nucleophilic aliphatic substitution introduction	22-02-2023	9/4/2/23	1	1	
29.	Nucleophiles and leaving groups	22-02-2023	9/27/2/23	1	1	
30.	Nucleophiles and leaving groups	27-02-2023	9/27/2/23	1	1	
31.	Mechanism and kinetics of SN2 reactions	28-02-2023	27/2/23	1	1	
32.	Tutorial	01-03-2023	1/3/23	1	1	
33.	Stereochemistry and steric hindrance	01-03-2023	1/3/23	1	1	
34.	Role of solvent	06-03-2023	1/3/23	1	1	
35.	Phase transfer catalysis	07-03-2023	6/3/23	1	1	
Commencement of I MID Exam 13.03.2023 to 18.03.2023						
36.	Mechanism and kinetics of SN1 reactions	20-03-2023	9/20/3/23	1	1	
37.	Stereochemistry	20-03-2023	9/20/3/23	1	1	
38.	Carbocation and their stability	27-03-2023	27/3/23	1	1	

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Designation: Asst. Prof.

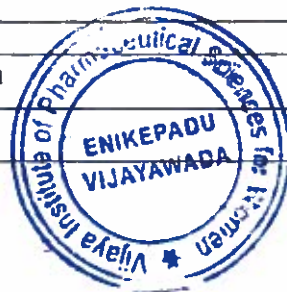
Semester/ year: 1 year Pharm D

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Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
39.	Substitution reactions	28-03-2023	28/3/23	1	1	
40.	Tutorial	29-03-2023	28/3/23	1	1	
41.	Rearrangement of carbocation	29-03-2023	29/3/23	1	1	
42.	Role of solvents in SN1 reaction	03-04-2023	3/4/23	1	1	
43.	Ion dipole bonds	04-04-2023	10/4/23	1	1	
44.	Tutorial	05-04-2023	10/4/23	1	1	
45.	SN2 versus SN1 solvolyses	05-04-2023	7/4/23	1	1	
46.	Nucleophilic assistance by the solvents.	10-04-2023	7/4/23	1	1	
47.	Dehydro halogenation of alkyl halides	11-04-2023	12/4/23	1	1	
48.	1,2 elimination	12-04-2023	12/4/23	1	1	
49.	Tutorial	12-04-2023	13/4/23	1	1	
50.	E2 and E1 mechanism, elimination via carbocation	17-04-2023	13/4/23	1	1	
51.	Evidence for E2 mechanism	18-04-2023	17/4/23	1	1	
52.	Factors effecting Elimination reactions	19-04-2023	18/4/23	1	1	
53.	Tutorial	19-04-2023	19/4/23	1	1	
54.	Orientation and reactivity, E2 versus E1	24-04-2023	24/4/23	1	1	
55.	Elimination versus substitution	25-04-2023	28/4/23	1	1	
56.	Dehydration of alcohol, ease of dehydration	26-04-2023	28/4/23	1	1	
57.	Acid catalysis, reversibility, orientation	01-05-2023	15/5/23	1	1	

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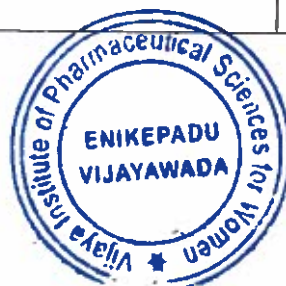
Semester/ year: I year Pharm D

Name of the subject: Pharmaceutical Organic Chemistry

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
58.	Tutorial	02-05-2023	2/5/23	1	1	
59.	Electrophillic and free radicals addition	03-05-2023	3/5/23	1	1	
60.	Reactions at carbon-carbon, double bond	03-05-2023	3/5/23	1	1	
61.	Electrophile, hydrogenation	08-05-2023	8/5/23	1	1	
62.	Tutorial	09-05-2023	9/5/23	1	1	
63.	Heat of hydrogenation and stability of alkenes	10-05-2023	10/5/23	1	1	
64.	Markownikoff rule-Addition of halides	10-05-2023	10/5/23	1	1	
65.	Peroxide effect	15-05-2023	15/5/23	1	1	
66.	Tutorial	16-05-2023	16/5/23	1	1	
67.	Absence of hydrogen exchange, orientation and reactivity	17-05-2023	17/5/23	1	1	
68.	Halohydrin formation	17-05-2023	17/5/23	1	1	
69.	Mechanism of peroxide initiated addition of hydrogen bromide	22-05-2023	22/5/23	1	1	online classes
70.	Tutorial	23-05-2023	22/5/23	1	1	
71.	Orientation of free addition	24-05-2023	24/5/23	1	1	
72.	Additions of carbene to alkene	29-05-2023	29/5/23	1	1	
73.	Free radical halogenations of alkenes	30-05-2023	230/5/23	1	1	
74.	Tutorial	31-05-2023	31/5/23	1	1	



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75.	Comparison of free radical substitution with free radical	31-05-2023	30/5/23	1	1	
Commencement of II MID Exam 05.06.2023 to 10.06.2023						
76.	Theory of resonance	12-06-2023	19/6/23	1	1	upto 15th June 2nd Mid Exam
77.	resonance stabilisation of allyl radicals, hyper conjugation	13-06-2023	26/6/23	1	1	
78.	Tutorial	14-06-2023	26/6/23	1	1	(20-22 spot)
79.	Allyl cation as a resonance hybrid	14-06-2023	27/6/23	1	1	
80.	Nucleophilic substitution in allylic substrat	19-06-2023	27/6/23	1	1	
81.	Resonance stabilisation of allyl cation, hyper conjugation	20-06-2023	27/6/23	1	1	
82.	1,4- addition, 1,2-versus 1,4-addition	21-06-2023	28/6/23	1	1	
83.	Tutorial	21-06-2023	28/6/23	1	1	
84.	Electrophilic aromatic substitution	26-06-2023	3/7/23	1	1	
85.	Surgical dressings	27-06-2023	4/7/23	1	1	
86.	Ligatures and sutures	28-06-2023	5/7/23	1	1	
87.	Topic 4 :Weights and Measures	28-06-2023	5/7/23	1	1	
88.	Tutorial	03-07-2023	10/7/23	1	1	
89.	Calculations involving percentage solutions & Allegation	04-07-2023	11/7/23	1	1	
90.	Calculations involving percentage solutions & Allegation	05-07-2023	12/7/23	1	1	
91.	Calculations involving Proof spirit & isotonic solutions	05-07-2023	12/7/23	1	1	

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Designation: Asst. Prof.

Semester/ year: I year Pharm D

Name of the subject: Pharmaceutical Organic Chemistr

Sl.No	Unit / Topic	Teaching planned on (Date)	Taught on (Date)	No of periods (Planned)	No of periods (Actual taken)	Remark (If any deviation)
92.	Nucleophilic addition reaction	10-07-2023	17/7/23	1	1	
93.	Mechanism, ionisation of carboxylic acids	11-07-2023	17/7/23	1	1	
94.	Acidity constants, acidity of acids	12-07-2023	18/7/23	1	1	
95.	Effect of substituent on acidity	12-07-2023	18/7/23	1	1	
96.	Conversion of acid to acid chloride, esters, amide and anhydride	17-07-2023	19/7/23	1	1	
97.	Role of caboxyl group, comparison	18-07-2023	19/7/23	1	1	
98.	Tutorial	19-07-2023	19/7/23	1	1	
99.	Mechanism of aldol condensation, claisen condensation	19-07-2023	19/7/23	1	1	
100.	Cannizzaro reaction, crossed aldol condensation, benzoin	24-07-2023	24/7/23	1	1	
101.	Perkin condensation. Knoevenagel condensation	25-07-2023	25/7/23	1	1	
102.	Reformatsky reaction, Wittig reaction, Michael addition	26-07-2023	26/7/23	1	1	
103.	Tutorial	26-07-2023	26/7/23	1	1	
104.	Hoffman rearrangement, Sandmeyer's reaction	31-07-2023	31/7/23	1	1	
105.	Basicity of amines, diazotisation and coupling	01-08-2023	31/7/23	1	1	
106.	Acidity of phenols	02-08-2023	1/8/23	1	1	
107.	Tutorial	02-08-2023	1/8/23	1	1	
108.	Williamson synthesis, Fries rearrangement	07-08-2023	2/8/23	1	1	

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109.	Kolbe reaction, Reimer tieman's reactions	08-08-2023		1		
110.	Migration to electron deficient nitrogen	09-08-2023	30/8/23	1	2	
111.	Nucleophilic aromatic substitution	09-08-2023		1	1	
112.	Bimolecular displacement mechanisms, orientation	14-08-2023	9/8/23	1	1	
113.	Comparison of aliphatic nucleophilic substitution	16-08-2023	14/8/23	1	1	
114.	Oxidation reactions- reduction reaction	16-08-2023	16/8/23	1	1	
115.	Reactions of Oxidation reduction reactions	21-08-2023	14/8/23	1	1	
116.	Preparation, test for purity, assay and medicinal uses of Chlorbutol, Dimercaprol	22-08-2023	21/8/23	1	1	
117.	Preparation, test for purity, assay and medicinal uses of Glyceryl trinitrate, Urea, Ethylene diamine dihydrate, Vanillin, Paraldehyde	23-08-2023	22/8/23	1	1	
118.	Preparation, test for purity, assay and medicinal uses of Ethylene chloride, Lactic acid, Tartaric acid, citric acid	23-08-2023	23/8/23	1	1	

Commencement of III MID Exam 28.08.2023- 02.09.2023

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