



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

ACADEMIC YEAR: 2022-2023

Name of the programs : B. Pharmacy
Year : VII Semester
Name of the Subject : Instrumental methods of Analysis
Course/Subject code : BP701T
Name of the Faculty : Dr. K. Neelima
Designation : Associate Professor
Department : Pharmaceutical Analysis

LESSON PLANS

Unit No	Lesson No	Proposed date	Name of the Topic	Actual Date	Ref. Text Book
I	1	19/9/2022	Regions of Electromagnetic Radiation, Properties of Electromagnetic Radiation,	19/9/2022	T1, T2
			Electronic Transitions		T1, T2, T3
I	2	22/9/2022	Concept of Chromophore, auxochrome and types of shifts	22/9/2022	T1, T2, T3
I	3	22/9/2022	solvent effect, effect of conjugation	22/9/2022	T1, T2
			Beers-Lamberts law and its deviations		T1, T2
I	4, 5	24/9/2022, 26/9/2022	Instrumentation, components of spectrophotometer, types of spectrophotometer	24/9/2022, 26/9/2022	T1, T2
I	6	29/9/2022	Spectrophotometric titrations, Applications- Qualitative and quantitative-single & multi component Analysis	29/9/2022	T1, T2
I	7	29/9/2022	Flourimetry Principle	29/9/2022	T1,T2,T5
			Fluorescence spectroscopy fundamentals i.e. principle, concept of singlet, doublet & triplet		T1,T2,T5
			factor affecting florescence		T1,T2,T5
I	8, 9	30/9/2022, 30/9/2022	Fluorescence and molecular structure, properties of	30/9/2022, 30/9/2022	T1,T2,T5

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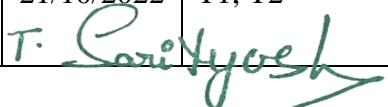
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Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
			fluorescence, Quenching		
			Instrumentation-components of Flourimeter		T1,T2,T5
II	10	10/10/2022	Flame photometry-Principle & interfaces	10/10/2022	T1,T2,T5
II	11	10/10/2022	Flame photometry-Instrumentation & Applications	10/10/2022	T1,T2,T5
II	12	13/10/2022	Atomic absorption Spectroscopy	13/10/2022	T1,T2,T5
			AAS- Instrumentation & Applications		T1,T2,T5
II	13	13/10/2022	Nephelometry, Turbidometry principles and factors	13/10/2022	T1,T2,T5
			Nephelometry, Turbidometry instrumentation		T1,T2,T5
II	14	15/10/2022	IR-Introduction, principle, molecular vibrations	15/10/2022	T2, T3
II	15	17/10/2022	Sample preparation and handling	17/10/2022	T2, T3
II	16	20/10/2022	Factor affecting Intensity and position of IR bands	20/10/2022	T2, T3
II	17	20/10/2022	Instrumentation-spectrophotometer components, Applications	20/10/2022	T2, T3
Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
III	18	27/10/2022	Paper Chromatography -Principle, Instrumentation, Experimental details & Application	27/10/2022	T1, T2
III	19	29/20/2022	Paper Chromatography -Principle, Instrumentation, Experimental details & Application	29/20/2022	T1, T2
III	20	29/10/2022	Thin Layer Chromatography-Principle, Instrumentation, Experimental details & Application	29/10/2022	T1, T2
III	21	21/10/2022	Thin Layer Chromatography-Principle, Instrumentation, Experimental details & Application	21/10/2022	T1, T2


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III	22	7/11/2022	Column Chromatography- Principle, Instrumentation, applications	7/11/2022	T1, T2
III	23	10/11/2022	Column Chromatography- Principle, Instrumentation, applications	10/11/2022	T1, T2
III	24	14/11/2022	Column Chromatography- Principle, Instrumentation, applications	14/11/2022	T1, T2
III	25	15/11/2022	Introduction to Electrophoresis	15/11/2022	T1, T5
III	26	21/11/2022	Principle, instrumentation and experimental details and applications of Paper Electrophoresis	21/11/2022	T1, T5
III	27	24/11/2022	Principle, instrumentation and experimental details and applications of Paper Electrophoresis	24/11/2022	T1, T5
III	28	5/12/2022	Principle, instrumentation, Experimental details and applications of Gel Electrophoresis	5/12/2022	T1, T5
III	29	8/12/2022	Principle, instrumentation, Experimental details and applications of Gel Electrophoresis	8/12/2022	T1, T5
III	30	28/11/2022	Capillary Electrophoresis	28/11/2022	T1, T2
III	31	1/12/2022	Capillary Electrophoresis	1/12/2022	T1, T2
Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
IV	32, 33, 34, 35	12/12, 15/12, 15/12, 19/12/2022	Principle, instrumentation, Experimental details Detectors and application of HPLC	12/12, 15/12, 15/12, 19/12/2022	T1, T2
IV	36, 37, 38, 39	27/12, 29/12, 31/12/2022	Principle, instrumentation, Experimental details Detectors and application of Gas Chromatography	27/12, 29/12, 31/12/2022	T1, T2

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Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
V	40, 41,42	31/12, 2/1, 5/1/2022	Ion Exchange Chromatography	31/12, 2/1, 5/1/2022	T1, T2, T5
V	43, 44	7/1, 9/1/2022	Affinity Chromatography	7/1, 9/1/2022	T1, T2,T5
V	45,46	12/1, 16/1/2022	Gel Chromatography	12/1, 16/1/2022	T1, T2,T5

REFERENCE BOOKS

T1:	Principles of Instrumental Analysis- Edition- D.A. Skoog, F. James Holler, Timothy
T2:	Instrumental methods of chemical Analysis- Edition- G.A. Chatwal, Sham Anand
T3:	Introduction to Spectroscopy - Edition- by Donald. L. Pavia
T4:	Spectrometric Identification of organic compounds- Edition - Robert M. Silverstein. Francis X. Webster. David J. Kiemle
T5:	Textbook of Pharmaceutical Analysis- 4th Edition-Dr. S. Ravi Shankar

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ACADEMIC YEAR: 2022-2023

Name of the programs: **PHARM D**
Year : **III Year**
Name of the Subject : **Pharmaceutical Analysis**
Course/Subject code : **3.2**
Name of the Faculty : **Dr. K. Neelima**
Designation : **Associate Professor**
Department : **Pharmaceutical Analysis**

LESSON PLAN

Unit No	Lesson No	Proposed date	Name of the Topic	Actual date	Ref. Text Book
II	1	11/10/2022	Introduction To chromatography	11/10/2022	T1, T2, T5, T6
II	2	11/10/2022	Paper chromatography	11/10/2022	T1, T2, T5, T6
II	3	12/10/2022	Paper chromatography	12/10/2022	T1, T2, T5, T6
II	4	15/10/2022	TLC	15/10/2022	T1, T2, T5, T6
II	5	18/10/2022	Column chromatography	18/10/2022	T1, T2, T5, T6
II	6	18/10/2022	Tutorial	18/10/2022	
II	7	19/10/2022	Column chromatography	19/10/2022	T1, T2, T5, T6
II	8	25/10/2022	Paper Electrophoresis	25/10/2022	T1, T2, T5, T6
II	9	25/10/2022	Tutorial	25/10/2022	
II	10	26/10/2022	Gel electrophoresis	26/10/2022	T1, T2, T5, T6
II	11	29/10/2022	Gel electrophoresis applications	29/10/2022	T1, T2, T5, T6
II	12	9/11/2022	Ion exchange chromatography	9/11/2022	T1, T2, T5, T6

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II	13	11/11/2022	Ion exchange chromatography	11/11/2022	T1, T2, T5, T6
II	14	15/11/2022	HPTLC	15/11/2022	T1, T2, T5, T6
II	15	15/11/2022	Tutorial	15/11/2022	
II	16	16/11/2022	HPLC	16/11/2022	T1, T2, T5, T6
II	17	19/11/2022	HPLC	19/11/2022	T1, T2, T5, T6
II	18	22/11/2022	Gas Instrumentation	22/11/2022	T1, T2, T5, T6
II	19	22/11/2022	Tutorial	22/11/2022	
II	20	23/11/2022	Gas Detectors	23/11/2022	T1, T2, T5, T6
II	21	26/11/2022	Gas chromatographic applications	26/11/2022	T1, T2, T5, T6
II	22	29/11/2022	Gel Filtration	29/11/2022	T1, T2, T5, T6
	23	29/11/2022	Tutorial	29/11/2022	
II	24	30/11/2022	Affinity chromatography	30/11/2022	T1, T2, T5, T6
Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
III	25	3/12/2022	Potentiometry theory	3/12/2022	T2, T5, T6
III	26	6/12/2022	Potentiometry	6/12/2022	T2, T5, T6
III	27	6/12/2022	Potentiometry applications	6/12/2022	T2, T5, T6
III	28	7/12/2022	Conductometry theory	7/12/2022	T2, T5, T6
III	29	13/12/2022	Conductometry	13/12/2022	T2, T5, T6
	30	13/12/2022	Tutorial	13/12/2022	
III	31	14/12/2022	Conductometry applications	14/12/2022	T2, T5, T6
III	32	3/1/2022	Polarography theory	3/1/2022	T2, T5, T6

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	33	3/1/2022	Tutorial	3/1/2022	
III	34	4/1/2022	Polarography applications	4/1/2022	T2, T5, T6
III	35	7/1/2022	Amperometry theory	7/1/2022	T2, T5, T6
III	36	10/1/2022	Amperometry applications	10/1/2022	T2, T5, T6
	37	10/1/2022	Tutorial	10/1/2022	
Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
IV	38	11/1/2023	Introduction to Electromagnetic radiation	11/1/2023	T2, T3, T5, T6
IV	39	17/1/2023	Electromagnetic radiation	17/1/2023	T2, T3, T5, T6
IV	40	17/1/2023	Tutorial	17/1/2023	T2, T3, T5, T6
IV	41	18/1/2023	Introduction to UV-Visible spectroscopy	18/1/2023	T2, T3, T5, T6
IV	42	24/1/2023	Theory and Types of transition	24/1/2023	T2, T3, T5, T6
IV	43	24/1/2023	Tutorial	24/1/2023	
IV	44	25/1/2023	Beer-Lamberts law	25/1/2023	T2, T3, T5, T6
IV	45	28/1/2023	Limitation to Beer lamberts law and its deviation	28/1/2023	T2, T3, T5, T6
IV	46	31/1/2023	Chromophore, Auxochrome and shifts	31/1/2023	T2, T3, T5, T6
IV	47	31/1/2023	Tutorial	31/1/2023	
IV	48	1/2/2023	Effect of conjugation, Effect of solvents	1/2/2023	T2, T3, T5, T6
IV	49	3/2/2023	Instrumentation of UV (sources)	3/2/2023	T2, T3, T5, T6
IV	50	4/2/2023	Monochromators and sample holders	4/2/2023	T2, T3, T5, T6
IV	51	7/2/2023	Detectors	7/2/2023	T2, T3, T5, T6
IV	52	7/2/2023	Tutorial	7/2/2023	
IV	53	8/2/2023	Single and double beam spectrophotometer	8/2/2023	T2, T3, T5, T6
IV	54	14/2/2023	Single and multi component analysis	14/2/2023	T2, T3, T5, T6

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IV	55	14/2/2023	Tutorial	14/2/2023	
IV	56	15/2/2023	Qualitative and quantitative applications	15/2/2023	T2, T3, T5, T6
IV	57	25/2/2023	Introduction to IR spectroscopy, theory and principle	25/2/2023	T2, T3, T5, T6
IV	58	28/2/2023	Molecular vibrations,	28/2/2023	T2, T3, T5, T6
IV	59	28/2/2023	Tutorial	28/2/2023	
IV	60	2/3/2023	sample handling techniques, Hooks law	2/3/2023	T2, T3, T5, T6
IV	61	2/3/2023	Position of bands, finger print region	2/3/2023	T2, T3, T5, T6
IV	62	9/3/2023	Instrumentation of IR	9/3/2023	T2, T3, T5, T6
IV	63	9/3/2023	Detectors of IR	9/3/2023	T2, T3, T5, T6
IV	64	14/3/2023	Qualitative and quantitative applications of IR	14/3/2023	T2, T3, T5, T6
IV	65	14/3/2023	Tutorial	14/3/2023	
IV	66	15/3/2023	Flourimetry theory and principle	15/3/2023	T2, T3, T5, T6
IV	67	16/3/2023	Flourimetry factors and applications	16/3/2023	T2, T3, T5, T6
IV	68	18/3/2023	Flame Photometry Principle and Instrumentation	18/3/2023	T2, T3, T5, T6
IV	69	20/3/2023	Flame Photometry interferences, Applications	20/3/2023	T2, T3, T5, T6
IV	70	20/3/2023	Atomic absorption spectroscopy	20/3/2023	T2, T3, T5, T6
IV	71	21/3/2023	Atomic absorption spectroscopy	21/3/2023	T2, T3, T5, T6
IV	72	21/3/2023	Tutorial	21/3/2023	
IV	73	25/3/2023	Atomic emission spectroscopy	25/3/2023	T2, T3, T5, T6
IV	74	26/3/2023	NMR Introduction	26/3/2023	T2, T3, T5, T6
IV	75	28/3/2023	Sessional	28/3/2023	
IV	76	28/3/2023	Sessional	28/3/2023	

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IV	77	11/4/2023	Chemical shift, shielding and deshielding effects	11/4/2023	T2, T3, T5, T6
IV	78	11/4/2023	Tutorial	11/4/2023	
IV	79	12/4/2023	Spin spin splitting, coupling constant	12/4/2023	T2, T3, T5, T6
IV	80	13/4/2023	Instrumentation and Applications	13/4/2023	T2, T3, T5, T6
IV	81	15/4/2023	ESR	15/4/2023	T5, T6
IV	82	18/4/2023	Mass Spectroscopy Introduction	18/4/2023	T2, T3, T5, T6
IV	83	18/4/2023	Tutorial	18/4/2023	
IV	84	19/4/2023	Ionization techniques, Mass Analyzers	19/4/2023	T2, T3, T5, T6
IV	85	19/4/2023	Fragmentation Pattern	19/4/2023	T2, T3, T5, T6
IV	86	25/4/2023	Types of peaks and applications	25/4/2023	T2, T3, T5, T6
IV	87	25/4/2023	Tutorial	25/4/2023	
IV	88	26/4/2023	Polarimetry	26/4/2023	T5, T6
IV	89	27/4/2023	Polarimetry	27/4/2023	
IV	90	29/4/2023	XRD theory and concepts	29/4/2023	T5, T6
IV	91	1/5/2023	XRD theory and concepts	1/5/2023	
IV	92	2/5/2023	Diffraction pattern and applications	2/5/2023	T5, T6
IV	93	2/5/2023	Tutorial	2/5/2023	
IV	94	3/5/2023	Thermal DSC and application	3/5/2023	T2, T3, T5, T6
IV	95	4/5/2023	Thermal DSC and application	4/5/2023	
IV	96	6/5/2023	Thermal DSC and application	6/5/2023	
IV	97	9/5/2023	Thermal DTA and applications	9/5/2023	T2, T3, T5, T6
IV	98	9/5/2023	Tutorial	9/5/2023	
IV	99	10/5/2023	Thermal DTA and applications	10/5/2023	T2, T3, T5, T6
IV	100	11/5/2023	Thermal DTA and applications	11/5/2023	T2, T3, T5, T6
IV	101	11/5/2023	Tutorial	11/5/2023	
IV	102	14/6/2023	Tutorial	14/6/2023	
IV	103	14/6/2023	Tutorial	14/6/2023	

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Unit No	Lesson No	Date	Name of the Topic	Date	Ref. Text Book
IV	104	19/6/2023	Tutorial	19/6/2023	
I	105	20/6/2023	Quality Assurance	20/6/2023	T6
I	106	20/6/2022	Tutorial	20/6/2022	T6
I	107	23/6/2023	Introduction, sources of quality variation, control of quality variation.	23/6/2023	T6
I	108	26/6/2023	Concept of statistical quality control.	26/6/2023	T6
I	109	27/6/2023	Validation methods- quality of equipment, validation of equipment	27/6/2023	T6
I	110	27/6/2023	Tutorial	27/6/2023	T6
I	111	30/3/2023	Validation of analytical instruments and calibration.	30/3/2023	T6
I	112	3/6/2023	Total quality management	3/6/2023	T6
I	113	4/7/2023	GLP	4/7/2023	T6
I	114	4/7/2023	Tutorial	4/7/2023	T6
I	115	7/7/2023	ISO 9000	7/7/2023	T6
I	116	11/7/2023	ISO 9000	11/7/2023	T6
I	117	11/7/2023	Tutorial	11/7/2023	T6
I	118	14/7/2023	Quality review and Documentation	14/7/2023	T6
I	119	18/7/2023	ICH- International conference for harmonization-Guidelines.	18/7/2023	T6
I	120	18/7/2023	Regulatory control.	18/7/2023	T6

REFERENCE BOOKS

T1:	Principles of Instrumental Analysis- Edition- D.A. Skoog, F. James Holler, Timothy
T2:	Instrumental methods of chemical Analysis- Edition- G.A. Chatwal, Sham Anand
T3:	Introduction to Spectroscopy - Edition- by Donald. L. Pavia
T4:	Spectrometric Identification of organic compounds- Edition - Robert M. Silverstein. Francis X. Webster. David J. Kiemle
T5:	Textbook of Pharmaceutical Analysis-4th Edition-Dr. S. Ravi Shankar
T6:	Pharmaceutical Analysis by Pragi Arora, Varun Arora and Davinder kumar

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ACADEMIC YEAR: 2022-2023

Name of the programs : M. Pharmacy
Year : I Semester
Name of the Subject : Quality control and Quality assurance
Course/Subject code : MQA103T
Name of the Faculty : Dr. S. Rohini
Designation : Associate Professor
Department : Pharmaceutical Quality Assurance

LESSON PLAN

Unit No	Proposed Date	No. of periods	Name of the Topic	Actual date	CO/PO	Ref Text books
1	11/11/2022	1	Introduction to subject Concept and evolution	11/11/2022	1/1,2,4,7,11	1,2
1	14/11/2022	2	Introduction to subject Concept and evolution	14/11/2022	1/1,2,4,7,11	1,2
1	15/11/2022	1	scopes of Quality control	15/11/2022	1/1,2,4,7,11	1,2
1	17/11/2022	1	scopes of Quality Assurance	18/11/2022	1/1,2,4,7,11	1,2
1	18/11/2022	1	Good Laboratory Practice, GMP	21/11/2022	1/1,2,4,7,11	1,2
1	21/11/2022	2	Good Laboratory Practice, GMP	21/11/2022	1/1,2,4,7,11	1,2
1	22/11/2022	1	Overview of ICH Guidelines	22/11/2022	1/1,2,4,7,11	1,2
1	24/11/2022	1	QSEM	24/11/2022	1/1,2,4,7,11	1,2
1	25/11/2022	1	QSEM	25/11/2022	1/1,2,4,7,11	1,2
1	28/11/2022	2	With special emphasis on Q series guidelines.	28/11/2022	1/1,2,4,7,11	1,2
1	28/11/2022	1	With special emphasis on Q series guidelines.	29/11/2022	1/1,2,4,7,11	1,2
2	29/11/2022	1	Good Laboratory Practices: Scope of GLP, Definitions, Quality assurance unit.	01/12/2022	1/1,2,4,7,11	3,4
2	02/12/2022	1	protocol for conduct of non clinical testing, control on animal house,	02/12/2022	1/1,2,4,7,11	3,4
2	05/12/2022	2	report preparation and documentation. CPCSEA	05/12/2022	1/1,2,4,7,11	3,4

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			guidelines			
2	06/12/2022	1	Tutorial hour: Discussion on Assignments	06/12/2022	1/1,2,4,7,11	3,4
2	06/12/2022	1	CPCSEA guidelines	06/12/2022	1/1,2,4,7,11	3,4
2	08/12/2022	2	CPCSEA guidelines	08/12/2022	1/1,2,4,7,11	3,4
2	12/12/2022	2	cGMP guidelines according to schedule M, Tutorial hour Discussion on CPCSEA	12/12/2022	1/1,2,4,7,11	3,4
2	13/12/2022	2	USFDA (inclusive of CDER and CBER) Pharmaceutical Inspection Convention(PIC), utilities and maintenance of sterile areas, control of contamination and Good Warehousing Practice.	13/12/2022	2/1,2,4,7,11	3,4
2	16/12/2022	2	Organization and personnel responsibilities, training,	16/12/2022	2/1,2,4,7,11	3,4
2	19/12/2022	2	hygiene and personal records, drug industry location, Tutorial hour: Slip test	19/12/2022	2/1,2,4,7,11	3,4
2	23/12/2022	2	design, construction and plant lay out, maintenance, sanitation, environmental control,	20/12/2023	2/1,2,4,7,11	3,4
3	27/12/2022	1	Utilities and maintenance of sterile areas, and Good Warehousing Practice.	22/12/2023	2/1,2,4,7,11	3,5
3	29/12/2022	1	control of contamination	27/12/2023	2/1,2,4,7,11	3,5
3	30/12/2022	1	Analysis of raw materials, finished products,	29/12/2023	3/1,2,4,7,11	3,5
3	02/01/2023	1	Analysis of finished products,	30/12/2023	3/1,2,4,7,11	3,5
3	03/01/2023	1	Analysis of packaging materials,	03/01/2023	3/1,2,4,7,11	3,5
3	05/01/2023	1	Analysis of packaging materials,	05/01/2023	3/1,2,4,7,11	3,5
3	06/01/2023	1	in process quality control (IPQC), for tablets	06/01/2023	3/1,2,4,7,11	3,5
3	09/01/2023	1	Revision on CPCSEA guidelines	09/01/2023	3/1,2,4,7,11	3,5
3	10/01/2023	1	in process quality control (IPQC), for tablets	10/01/2023	3/1,2,4,7,11	3,5
	13/01/2023		Sessional I	13/01/2023		3,5
	13/01/2023		Sessional I	13/01/2023		3,5

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3	17/01/2023	1	in process quality control (IPQC), for capsules, ointments, creams,	17/01/2023	3/1,2,4,7,11	3,5
3	19/01/2023	1	Developing specification (ICH Q6 and Q3),	19/01/2023	3/1,2,4,7,11	3,5
3	20/01/2023	1	purchase specifications and maintenance	20/01/2023	3/1,2,4,7,11	3,5
3	23/01/2023	1	Seminar on IPQC for tablets and capsules	20/01/2023	3/1,2,4,7,11	3,5
3	24/01/2023	1	in process quality control (IPQC), for suppositories,	21/01/2023	3/1,2,4,7,11	3,5
3	27/01/2023	1	in process quality control (IPQC), for ophthalmic	23/01/2023	3/1,2,4,7,11	3,5
3	31/01/2023	1	Tutorial Hour: Parenterals & Surgical products	24/01/2023	3/1,2,4,7,11	3,5
3	02/02/2023	1	Documentation in pharmaceutical industry: Three tier documentation, Submission documents for regulators DMFs, as	27/01/2023	4/1,2,4,7,11	3,5
4	03/02/2023	1	Policy, Procedures and Work instructions, and records (Formats), Basic principles-	31/01/2023	4/1,2,4,7,11	1,5
4	06/02/2023	1	How to maintain, retention and retrieval etc. Standard operating procedures (How to write),	02/02/2023	4/1,2,4,7,11	1,5
4	07/02/2023	1	Master Batch Record, Batch Manufacturing Record,	03/02/2023	4/1,2,4,7,11	1,5
4	09/02/2023	2	Quality audit plan and reports.	04/02/2023	4/1,2,4,7,11	1,5
4	10/02/2023	1	Specification and test procedures, Protocols and reports.	06/02/2023	4/1,2,4,7,11	1,5
4	13/02/2023	2	Distribution records.	07/02/2023	4/1,2,4,7,11	1,5
4	14/02/2023	1	Electronic data handling. Concepts of controlled and uncontrolled documents.	09/02/2023	4/1,2,4,7,11	1,5
4	16/02/2023	1	Common Technical Document and Electronic Common Technical Documentation (CTD, eCTD).	10/02/2023	4/1,2,4,7,11	1,5
4	20/02/2023	1	Concept of regulated and non regulated markets.	13/02/2023	4/1,2,4,7,11	1,5

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5	21/02/2023	1	Sanitation of manufacturing premises, mix-ups and cross contamination, charge-in of components,	14/02/2023	5/1,2,4,7,11	2,5
5	23/02/2023	1	processing of intermediates and bulk products, packaging operations,	15/02/2023	5/1,2,4,7,11	2,5
5	24/02/2023	1	IPQC, release of finished product, process deviations,	16/02/2023	5/1,2,4,7,11	2,5
5	27/02/2023	1	drug product inspection,	20/02/2023	5/1,2,4,7,11	2,5
5	28/02/2023	1	Expiry date calculation, calculation of yields,	21/02/2023	5/1,2,4,7,11	2,5
5	02/03/2023	1	production record review, change control, sterile products,	23/02/2023	5/1,2,4,7,11	2,5
5	03/03/2023	1	Aseptic process control, packaging, reprocessing, salvaging,	24/02/2023	5/1,2,4,7,11	2,5
5	03/03/2023	1	Handling of waste and scrap disposal.	27/02/2023	5/1,2,4,7,11	2,5
5	03/03/2023	1	Introduction, scope and importance of intellectual property rights.	28/02/2023	5/1,2,4,7,11	2,5
5	03/03/2023	1	Concept of trade mark, copyright and patents.	01/03/2023	5/1,2,4,7,11	2,5

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ACADEMIC YEAR: 2022-2023

Name of the programs : M.Pharmacy
Year : I Semester
Name of the Subject : Food Analysis
Course/Subject code : MPA 104T
Name of the Faculty : Dr. P. Praneetha
Designation : Associate Professor
Department : Pharmacognosy

LESSON PLAN

S No	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/PO	Re Te Bo
	I	25-11-2022	1	Carbohydrates: classification properties of food carbohydrates	25-11-2022	1	1,
2.	I	26-11-2022	1	Chemical properties of carbohydrates	26-11-2022	1	1,
3.	I	28-11-2022	1	General methods of analysis of food carbohydrates	28-11-2022	1	1,
4.	I	29-11-2022	1	Changes in food carbohydrates during processing, digestion	29-11-2022	1	1,
5.	I	30-11-2022	1	absorption and metabolism of carbohydrates	30-11-2022	1	1,
6.	I	1-12-2022	1	Dietary fibre, Crude fibre	1-12-2022	1	1,
7.	I	2-12-2022	1	application of food carbohydrates	2-12-2022	1	1,
8.	I	2-12-2022	1	Chemistry and classification of amino acids	2-12-2022	1	1,

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9.	I	3-12-2022	1	Properties of proteins	3-12-2022	1	1,
10.	I	7-12-2022	1	general methods of analysis of proteins	7-12-2022	1	1,
11.	I	8-12-2022	1	Digestion, absorption and metabolism of proteins.	8-12-2022	1	1,

COURSE PLAN

Unit No	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/PO	Ref. Text Book
12.	I	12-12-2022	1	Digestion, absorption and metabolism of proteins.	12-12-2022	1	3,4
13.	I	14-12-2022	1	Revision of Unit 1	14-12-2022	1	3,4
14.	II	15-12-2022	1	Classification of lipids	15-12-2022	2	3,4
15.	II	16-12-2022	1	General methods of analysis of lipids	16-12-2022	2	3,4
16.	II	17-12-2022	1	Refining of fats and oils;	17-12-2022	2	3,4
17.	II	19-12-2022	1	Hydrogenation of vegetable oils	19-12-2022	2	3,4
18.	II	21-12-2022	1	Determination of adulteration in fats and oils	21-12-2022	2	3,4
19.	II	22-12-2022	1	Determination of adulteration in fats and oils,	22-12-2022	2	3,4

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20.	II	2-01-2023	1	Measurement of spoilage of fats and fatty foods A.V, S.V	2-01-2023	2	3,4
21.	II	4-01-2023	1	Iodine value, Ester value, Peroxide value	4-01-2023	2	3,4
22.	II	4-01-2023	1	Classification of vitamins	4-01-2023	2	3,4

COURSE PLAN

S.no	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/ PO	Ref. Text Book
23.	II	5-01-2023	1	methods of analysis of vitamins	5-01-2023	2	1,4
24.	II	6-01-2023	1	Principles of microbial assay of vitamins of B-9	6-01-2023	2	1,4
25.	II	9-01-2023	1	Principles of microbial assay of vitamins of B-12	9-01-2023	2	1,4
26.	III	11-1-2023	1	Food additives: Introduction	11-1-2023	3	1,4
27.	III	19-01-2023	1	analysis of Preservatives	19-01-2023	3	1,4
28.	III	20-01-2023	1	antioxidants artificial sweeteners,	20-01-2023	3	1,4
29.	III	21-01-2023	1	flavors, flavor enhancers	21-01-2023	3	1,4
30.	III	21-01-2023	1	stabilizers, thickening and jelling agents.	21-01-2023	3	1,4

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31.	III	23-01-2023	1	Natural pigments, their occurrence and characteristic properties	23-01-2023	3	1,4
32.	III	25-01-2023	1	Method of detection of natural pigments	25-01-2023	3	1,4
33.	III	25-01-2023	1	permitted synthetic dyes	25-01-2023	3	1,4

COURSE PLAN

Unit No	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/PO	Ref. Text Book
34.	III	27-01-2023	1	Non-permitted synthetic dyes	27-01-2023	3	1,5
35.	III	30-01-2023	1	Method of detection of permitted synthetic dyes,	30-01-2023	3	1,5
36.	III	31-01-2023	1	Method of detection of non permitted synthetic dyes	31-01-2023	3	1,5
37.	III	1-2-2023	1	Revision	1-2-2023	3	1,5
38.	IV	1-2-2023	1	General Analytical methods for milk,	1-2-2023	4	1,5
39.	IV	2-2-2023	1	milk constituents	2-2-2023	4	1,5
40.	IV	3-2-2023	1	Analysis of Ice creams	3-2-2023	4	1,5

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41.	IV	4-2-2023	1	Analysis of Milk powder	4-2-2023	4	1,5
42.	IV	6-2-2023	1	Analysis of Salt content and fat content in butter	6-2-2023	4	1,5
43.	IV	8-2-2023	1	Analysis of cheese or margarine	8-2-2023	4	1,5
44.	IV	8-2-2023	1	adulterants and contaminants of milk	8-2-2023	4	1,5
Unit No	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/PO	Ref. Text Book
45.	IV	9-2-2023	1	Analysis of fermentation products like wine	9-2-2023	4	4,5
46.	IV	10-2-2023	1	Analysis of fermentation products like spirits	10-2-2023	4	4,5
47.	IV	13-2-2023	1	Analysis of fermentation products like beer	13-2-2023	4	4,5
48.	IV	15-2-2023	1	Analysis of Vinegar	15-2-2023	4	4,5
49.	IV	15-2-2023	1	Revision	15-2-2023	4	4,5
50.	V	16-2-2023	1	Effects of pest and insects on various food	16-2-2023	5	4,5
51.	V	17-2-2023	1	pesticide cycle	17-2-2023	5	4,5
52.	V	18-2-2023	1	organ phosphorus pesticides analysis,	18-2-2023	5	4,5

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53.	V	20-2-2023	1	organ chlorine pesticides analysis,	20-2-2023	5	4,5
54.	V	22-2-2023	1	determination of pesticide residues in grains, fruits	22-2-2023	5	4,5
55.	V	23-2-2023	1	determination of pesticide residues in vegetables	23-2-2023	5	4,5

Unit No	Lesson No	Proposed Date	No. of periods	Name of the Topic	Actual Date	CO/PO	Ref. Text Book
56.	V	24-2-2023	1	Pesticide analysis in milk and milk products	24-2-2023	5	4,5
57.	V	25-2-2023	1	BIS and AGMARK	25-2-2023	5	4,5
58.	V	27-2-2023	1	FDA and USFDA	27-2-2023	5	4,5
59.	V	28-2-2023	1	Revision	28-2-2023	5	4,5
60.	V	1-3-2023	1	Revision	1-3-2023	5	4,5
61.	V	1-3-2023	1	Revision	1-3-2023	5	4,5
62.	V	2-3-2023	1	Revision	2-3-2023	5	4,5

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S.No	REFERENCE BOOKS
1	The chemical analysis of foods – David Pearson, Seventh edition, Churchill Livingstone, Edinburgh London, 1976
2	Introduction to the Chemical analysis of foods – S. Nielsen, Jones & Bartlett publishers, Boston London, 1994.
3	Official methods of analysis of AOAC International, sixth edition, Volume I & II, 1997.
4	Analysis of Food constituents – Multon, Wiley VCH.
5	Dr. William Horwitz, Official methods of analysis of AOAC International, 18th edition, 2005.

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ACADEMIC YEAR: 2022-2023

Name of the programs : M. Pharmacy
Year : I Semester
Name of the Subject : Advanced Biopharmaceutics & Pharmacokinetics
Course/Subject code : MPH202T
Name of the Faculty : Dr. B. Harika
Designation : Professor
Department : Pharmaceutics

LESSON PLAN

Unit No	Lesson No	Proposed Date	Name of the Topic	Actual Date	CO/ PO	Ref. Text Book
I	1	6/15/2023	Introduction to subject & syllabus	6/15/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	2	6/15/2023	GIT, Mechanism of drug absorption	6/15/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	3	6/16/2023	Factors affecting the dissolution, pH Partition theory	6/16/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	4	6/19/2023	Formulation & Physico chemical factors, Dissolution rate	6/19/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	5	6/20/2023	Dissolution method & process Noyes Whitney equation, drug absorption	6/20/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	6	6/21/2023	Factors affecting the dissolution, GI absorption	6/21/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	7	6/22/2023	Role of dosage form - solutions (Elixirs, syrup & solutions) as dosage forms	6/22/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	8	6/22/2023	Suspensions, capsules & tablets as dosage forms	6/22/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	9	6/23/2023	Dissolution methods, formulation and processing factors	6/23/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
I	10	6/25/2023	Correlation of invivo data with invitro dissolution data	6/25/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3

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I	11	6/27/2023	Transport model, permeability, solubility & charge state	6/27/2023	CO1/1,2,3,4,6,9,10	T1,T2,T3
II	12	6/30/2023	pH partition, intracellular pH, tight junction complex	6/30/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	13	6/30/2023	Introduction, Bio Pharmaceutical factors affecting Bio availability,	6/30/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	14	7/3/2023	Rate-limiting steps in drug absorption, physicochemical nature of drug.	7/3/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	15	7/4/2023	Formulation factors affecting drug product performance	7/4/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	16	7/6/2023	Invitro dissolution & drug release testing	7/6/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	17	7/6/2023	Compendia methods of dissolution	7/6/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	18	7/7/2023	Alternative method of Dissolution Testing	7/7/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	19	7/8/2023	Meeting dissolution requirements	7/8/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	20	7/10/2023	Problems of variable control in dissolution	7/10/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	21	7/11/2023	Testing performance of drug product	7/11/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	22	7/13/2023	Invitro invivo correlation	7/13/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	23	7/13/2023	Dissolution profile comparison	7/13/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
II	24	7/14/2023	Drug product stability considerations in the design of a drug	7/14/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
III	25	7/15/2023	Pharmacokinetic basic considerations	7/15/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
III	26	7/17/2023	Pharmacokinetic models	7/17/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
III	27	7/18/2023	One compartmental open model IV bolus derivation	7/18/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
III	28	7/20/2023	Problems IV bolus	7/20/2023	CO2/1,2,3,4,6,9,10	T1,T2,T3
III	29	7/20/2023	IV infusion derivation in blood & urine	7/20/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	30	7/21/2023	Problems on IV infusion	7/21/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	31	7/22/2023	Extravascular derivations	7/22/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3

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III	32	7/24/2023	Parameters	7/24/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	33	7/25/2023	Multi compartmental model- Introduction	7/25/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	34	7/25/2023	Two compartment model	7/25/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	35	7/25/2023	Two compartment model - IV bolus derivations	7/25/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	36	7/28/2023	Parameter derivation	7/28/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	37	7/28/2023	Non- linear pharmacokinetics	7/28/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	38	7/31/2023	Michelis mentons equation of Km & Vmax	7/31/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	39	8/2/2023	Drug interactions	8/2/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	40	8/3/2023	Ist Sessional exam	8/3/2023		
III	41	8/3/2023	Ist Sessional exam	8/3/2023		
III	42	8/5/2023	Cytochrome, protein binding & tissue binding interaction	8/5/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
III	43	8/7/2023	Project: Seminars given by students	8/7/2023		
III	44	8/8/2023	Drug interaction limited to transporters	8/8/2023	CO3/1,2,3,4,6,9,10	T1,T2,T3
IV	45	8/10/2023	Drug product performance: Invivo	8/10/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	46	8/10/2023	B.A. & B.E., Drug product performance, purpose of BA	8/10/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	47	8/11/2023	Relative and absolute bioavailability, methods for assessing B.A.	8/11/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
	48	8/14/2023	Project: Seminars given by students	8/14/2023		
IV	49	8/17/2023	B.E. studies, design & evaluation of data, B.E. example	8/17/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	50	8/17/2023	Study designs, cross over evaluation of data, B.E. example	8/17/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	51	8/18/2023	Study submission, drug review process, BCS system	8/18/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	52	8/19/2023	Permeability: In vitro, insitu & Invivo methods	8/19/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
	53	8/21/2023	Journal club - Seminars	8/21/2023		

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IV	54	8/22/2023	Clinical significance of B.E. studies, special concern B.A. & B.E.	8/22/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	55	8/24/2023	Generic substitution	8/24/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
	56	8/24/2023	Revision of problems on one compartment model	8/24/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
	57	8/26/2023	Revision of problems on one compartment model	8/26/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
IV	58	8/28/2023	Project seminars given by students	8/28/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
V	59	8/29/2023	Application of Pharmacokinetic principles: Modified release	8/29/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
V	60	9/1/2023	Targeted Drug delivery systems	9/1/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
V	61	9/2/2023	Biotechnology products	9/2/2023	CO4/1,2,3,4,6,9,10	T1,T2,T3
	62	9/4/2023	Journal club - Seminars	9/4/2023		
V	63	9/5/2023	Problem on oral/ plasma one compartment model	9/5/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	64	9/8/2023	Introduction to pharmacokinetics & pharmacodynamics	9/8/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
	65	9/11/2023	Project presentation seminars	9/11/2023		
V	66	9/12/2023	Drug interactions	9/12/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	67	9/14/2023	Pharmacokinetics & Pharmacodynamics of B.T. drugs	9/14/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	68	9/14/2023	Introduction, proteins & peptides	9/14/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	69	9/15/2023	Monoclonal antibodies	9/15/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	70	9/16/2023	oligonucleotides	9/16/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	71	9/19/2023	vaccines	9/19/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
V	72	9/21/2023	Gene therapy	9/21/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
III	73	9/21/2023	Problems - Extravascular one compartment model	9/21/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
III	74	9/22/2023	Revision on problems & previous question papers	9/22/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
III	75	9/23/2023	Problems on two compartment (oral / plasma)	9/23/2023	CO5/1,2,3,4,6,9,10	T1,T2,T3
	76	9/25/2023	Journal club - seminars	9/25/2023		

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77	9/26/2023	II sessional Exam	9/26/2023		
78	9/26/2023	II sessional Exam	9/26/2023		

S.NO	REFERENCE BOOKS
1	Biopharmaceutics and Pharmacokinetics, A. Treatise, D .M. Brahmkar and Sunil B. Jaiswal., Vallab Prakashan, Pitampura, Delhi
2	Biopharmaceutics and Pharmacokinetics, V.Venkateswarlu
3	Basic Pharmacokinetics, 1 st edition, Sunil S Jambhakar and Philip J Breen , pharmaceutical press, RPS Publishing, 2009
4	Textbook of Biopharmaceutics and Pharmacokinetics, Dr. Shobha Rani R. Hiremath, Prism Book
5	Pharmacokinetics by Milo Gibaldi and D. Perrier, 2nd edition, Marcel Dekker Inc., New York, 1982 6.
6	Current Concepts in Pharmaceutical Sciences: Biopharmaceutics, Swarbrick. J, Lea and Febiger, Philadelphia, 1970 7
7	Clinical Pharmacokinetics, Concepts and Applications 3rd edition by Malcolm Rowland and Thom~ N. Tozer, Lea and Febiger, Philadelphia, 1995
8	Dissolution, Bioavailability and Bioequivalence, Abdou. H.M, Mack Publishing Company, Pennsylvania 1989
9	Biopharmaceutics and Clinical Pharmacokinetics, An Introduction, 4th edition, revised and expanded by Robert. E. Notari, Marcel Dekker Inc, New York and Basel, 1987.
10	Biopharmaceutics and Relevant Pharmacokinetics by John. G Wagner and M.Pemarowski, 1st edition, Drug Intelligence Publications, Hamilton, Illinois, 1971.
11	Encyclopedia of Pharmaceutical Technology, Vol 13, James Swarbrick, James. G.Boylan, Marcel Dekker Inc, New York, 1996.
12	Absorption and Drug Development- Solubility, Permeability, and Charge State, Alex Avdeef, John Wiley & Sons, Inc, 2003
13	Biopharmaceutics and Clinical Pharmacokinetics by Milo Gibaldi, 4th edition, Philadelphia, Lea and Febiger, 1991

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