JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : B. Pharm	Session : 2022-2026	Year : 2022	Sem: 1

Course: Pharmaceutics I

Name of the Faculty: Soma Ghosh	Commencement Date:	Date of Closure:

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	UNIT 1	**Historical background and development of profession of pharmacy:** History of profession of Pharmacy in India in relation to pharmacy education, industry and organization										
2			Pharmacy as a career, Pharmacopoeias: Introduction to IP, BP, USP and Extra Pharmacopoeia.										
3			**Dosage forms:** Introduction to dosage forms										
4			classification and definitions of dosage forms										

5	**2**	UNIT 1	**Prescription:** Definition, Parts of prescription										
6			Handling of Prescription										
7			Errors in prescription										
8			**Posology:** Definition, Factors affecting posology										
9	**3**	UNIT 1	Pediatric dose calculations based on age, body weight and body surface area.										
10		UNIT 2	**Pharmaceutical calculations:** Weights and measures – Imperial system										
11			Weights and measures –Metric system										
12			Calculations involving percentage solutions										

13			alligation, proof spirit and isotonic solutions based on freezing point and molecular weight.										
14			**Powders:** Definition, classification, advantages and disadvantages										
15	**4**	UNIT 2	Simple &compound powders – official preparations, dusting powders										
16			effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions										
17			**Liquid dosage forms:** Advantages and disadvantages of liquid dosage forms										
18	**5**	UNIT 2	Excipients used in formulation of liquid dosage forms.										
19			Solubility enhancement techniques.										
20		UNIT 3	**Monophasic liquids:** Definitions and preparations of Gargles, Mouthwashes										

21	**6**	UNIT 3	Throat Paint, Ear drops, Nasal drops										
22			Enemas, Syrups, Elixirs, Liniments and Lotions										
23			**Biphasic liquids: Suspensi**ons: Definition, advantages and disadvantages, classifications										
24			Preparation of suspensions; Flocculated and Deflocculated suspension										
25	**7**	UNIT 3	stability problems and methods to overcome.										
26			**Emulsions:** Definition, classification, emulsifying agent										
27			Test for the identification of type of Emulsion, Methods of preparation										
28			stability problems and methods to overcome.										

29	**8**	UNIT 4	**Suppositories**: Definition, types, advantages and disadvantages										
30			Types of bases of Suppositories										
31			Methods of preparations of Suppositories										
32			Displacement value & its calculations, evaluation of suppositories										
33	**9**	UNIT 4	**Pharmaceutical incompatibilities**: Definition, Classification										
34			Physical, chemical incompastibles with example										
35			Therapeutic incompatibilities with examples.										
36		UNIT 5	**Semisolid dosage forms**: Definitions, classification										
37	**10**	UNIT 5	Mechanism of semisolid dossage form										
38			Factors influencing dermal penetration of drugs										

39		5	Preparation of ointments, pastes										
40			Preparation of creams and gels										
41		UNIT 5	Excipients used in semisolid dosage forms										
42			Evaluation of semisolid dosages forms.										
43			REVISION										
44	**11**		REVISION										
45	**12**		REVISION										