



**LESSON PLAN**

Faculty Name: Ms. Suman

Subject Name: Pharmaceutics-II

Class: D. Pharmacy – 2<sup>nd</sup> year

Subject Code: 2131

**Scope of the Subject:** The aim of this course is to provide a core for future studies in formulation of pharmaceutical preparations. The subject covers the information about the various formulations. This course mainly deals with prescription and compatibility in extemporaneous formulations and also preparation of various formulations and labeling and storage conditions.

**Course outcome:** Upon completion of this course the student should be able to:

- Reading and receiving the prescription and the error present in the prescription
- Latin terms used in prescription
- Pharmaceutical incompatibilities in the formulations
- Factors affecting dose
- Preparation and formulations of solid dosage forms, liquid dosage forms, ophthalmic preparations and parenteral formulations

**Number of Lectures:** 75 + 5

**Each lecture:** 01 hour

Lecture No.	Particular	Remark/Date
<b>Module 1: Prescription</b>		
1.	Prescriptions Reading and understanding of prescription,	
2.	Latin terms used	
3.	Modern methods of prescribing, Adoption of metric system	
4.	Calculation involved in dispensing	
5.	Test/revision	
<b>Module 2: Pharmaceutical Incompatibility</b>		
6.	Physical incompatibility	
7.	Chemical incompatibility, Therapeutic incompatibility	
8.	Test/revision	
<b>Module 3: Posology</b>		
9.	Dose and dosage of drugs,	
10.	factors affecting dose , Calculation of dose on the basis of age, sex and surface area, veterinary dose	
11.	Dispensed medication Methods of preparation, use of appropriate containers and closures	
12.	Special labeling requirements and storage conditions	
13.	Test/revision	
<b>Module 4: Powders</b>		
14.	Type of powders, advantages, disadvantages, Granules,	

	introduction	
15.	cachets, tablet triturates	
16.	Preparation of powders, Weighing methods, errors on weighing	
17.	Geometric dilution,	
18.	usage and care of dispensing balance	
19.	Possible errors, minimum weighable amounts	
20.	Test/revision	
<b>Module 4: Liquid Oral Dosage Form</b>		
21.	Monophasic essentials adjuvant like stabilizers	
22.	, colourants and flavours	
23.	Mixtures and concentrates	
24.	Gargle, mouthwashes	
25.	Syrups, douches	
26.	Elixirs	
27.	Sprays, throat paint	
28.	Ear drop, nasal drops	
29.	Liniments	
30.	Lotions	
31.	Test/revision	
<b>Module 5: Bi-Phasic Liquid Dosage form</b>		
32.	Suspensions : containing diffusible solids	
33.	Suspension containing Indiffusible solids adjuvants used in suspension preparation	
34.	Suspension of precipitate forming liquids, suspension produced by chemical reactions	
35.	Flocculated and non flocculated suspension	
36.	Emulsions Types of emulsion, identification tests,	
37.	Formulation of emulsions	
38.	Selection of emulsifying agent	
39.	Instabilities in emulsion,	
40.	Preservation of emulsion	
41.	Test/Revision	
<b>Module 6: Semi-Solid dosage form</b>		
42.	Ointments : Types, classification	
43.	Selection of vehicles,	
44.	Preparation of ointments	
45.	Trituration methods, Fusion method,	
46.	Chemical reaction, emulsification method	
47.	Test/revision	
48.	Pastes Difference between Ointments and pastes, bases of pastes,	
49.	Preparation of Pastes and their conservation	
50.	Jellies	
51.	Poultice	
52.	Suppositories and pessaries Merits and demerits, types,	

53.	Types of bases, classification	
54.	Packing of suppositories ,	
55.	use of suppositories in drug absorption	
56.	Test/revision	
<b>Module 7: Dental and Cosmetic Preparation</b>		
57.	Dentrifices introduction, facial cosmetics,	
58.	Deodorants, antiseptics, shampoos	
59.	Hair dressing, hair removers	
60.	Test/Revision	
<b>Module 8: Sterile dosage form</b>		
61.	Sterile dosage form Parenteral dosage form types,	
62.	Requirements and types of parenteral dosage form	
63.	Vehicles, adjuvants, processing	
64.	Personnel, facilities	
65.	quality control,	
66.	Preparation of IV Fluids	
67.	Admixture Total parenteral nutrition,	
68.	Dialysis fluids	
69.	Sterility tests, particular matter monitoring	
70.	Faulty seal packaging	
71.	Ophthalmic products	
72.	Essential characteristics of ophthalmic products,	
73.	Formulation additives	
74.	Precaution in handling and storage	
75.	Test/Revision	
<b>Revision</b>		
76.	Revision of previous question papers	
77.	Revision of previous question papers	
78.	Revision of previous question papers	
79.	Revision of previous question papers	
80.	Revision of previous question papers	

Teacher in-charge

HOD

Principal