

Contents

<i>List of Contributors</i>	v
<i>Preface</i>	vii
<i>Syllabus</i>	x
1. Study of Official Pharmacopeias and Formularies to Retrieve Formulae and Procedures	1
2. Preparation of Simple Syrup IP	5
3. Preparation of Piperazine Citrate Elixir	8
4. Preparation of Castor Oil Emulsion by Dry Gum Method	11
5. Preparation of Calamine Lotion	14
6. Preparation of Simple Ointment IP by Fusion Method	17
7. Preparation of Sulphur Ointment IP	20
8. Preparation of Cetrimide Cream	23
9. Preparation of Sodium Alginate Gel	26
10. Preparation of Turpentine Liniment	29
11. Preparation of Effervescent Granules	32
12. Preparation of Dusting Powder	35
13. Preparation of Hard Gelatin Capsules (Tetracycline Capsules)	38
14. Preparation of Paracetamol Tablets by Wet Granulation Method (Demonstration)	41
15. Demonstration of Various Stages Involved in Tablet Manufacturing Processes	45
16. Study of Methods of Usage and Storage of Pharmaceutical Dosage Forms (Inhalers, Spacers, and Insulin Pens)	48
17. Demonstration of Quality Control Tests for Pharmaceutical Dosage Forms	51

Pharmaceutics Course Code: ER20-11P

Practicals

1. Handling and referring the official references: Pharmacopoeias, Formularies, etc. for retrieving formulas, procedures, etc.
2. Formulation of the following dosage forms as per monograph standards and dispensing with appropriate packaging and labelling
 - **Liquid oral:** Simple syrup, piperazine citrate elixir, aqueous iodine solution
 - **Emulsion:** Castor oil emulsion, cod liver oil emulsion
 - **Suspension:** Calamine lotion, magnesium hydroxide mixture
 - **Ointment:** Simple ointment base, sulphur ointment
 - **Cream:** Cetrimide cream
 - **Gel:** Sodium alginate gel
 - **Liniment:** Turpentine liniment, white liniment BPC
 - **Dry powder:** Effervescent powder granules, dusting powder
 - **Sterile injection:** Normal saline, calcium gluconate injection
 - **Hard gelatine capsule:** Tetracycline capsules
 - **Tablet:** Paracetamol tablets
3. Formulation of at least five commonly used cosmetic preparations, e.g. cold cream, shampoo, lotion, toothpaste, etc.
4. Demonstration on various stages of tablet manufacturing processes
5. Appropriate methods of usage and storage of all dosage forms including special dosage such as different types of inhalers, spacers, insulin pens
6. Demonstration of quality control tests and evaluation of common dosage forms, viz. tablets, capsules, emulsion, sterile injections as per the monographs