

بامعة البلقاء التطبيقية

تأسست نماء 1997

| Paramedical program | | | | |
|---------------------|----------------------------|--|--|--|
| Specialization | Pharmacy | | | |
| Course number | 020805132 | | | |
| Course title | Pharmaceutics 1/ practical | | | |
| Credit hours | 2 | | | |
| Theoretical hours | 0 | | | |
| Practical hours | 6 | | | |





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Brief Course Description:

It is a practical course includes drug prescription and its contents, calculations, pharmaceutical measurements, weighing and measuring volumes.

Course Objectives:

Upon the completion of the course, the student will be able to:

- 1. use and handle tools and lab instruments
- 2. Identify pharmacopoeias and how to use.
- 3. Know the components of prescriptions.
- 4. calculate the amount of the prescription components.
- 5. Identify different pharmaceuticals calculations and performed them correctly.





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Detailed Course Description:

| Unit number | Unit name | Unit content | Time needed |
|----------------|---|---|----------------|
| 1. | | Identification of tools , instruments available in the lab Training on using measuring tools for (weight & volume) Laboratory Rules and Safety hazard symbols should be used as guides for the handling of chemical reagents | |
| 2. | Pharmacopoeia and other compendia | Pharmacopeias contents and how to use. British pharmacopoeia (B. P.) State pharmacopoeia (U.S.A) Martindale MIMs Jordan drug index | |
| 3. | Dispensing and Prescription. | summarize pharmaceutical/medical terminology, abbreviations and symbols commonly used in the prescribing, dispensing, and charting of medications in the pharmacy Analysis of prescription report error , missing part in the prescription and prescription of patient medication record . Pharmacist counseling (OTC, Cosmetics, Inhaler) | |
| 4. | Posology | factors affecting dosecalculation of doses for infants and children. | |
| 5. | Pharmaceutical calculations: | Pharmaceutical measurement systems:(metric, avoirdupois, and apothecary) ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas dilution and concentration.(dilution from stock | |

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| | | solution, dilution from two solution without using diluents(solvents) Mole fraction , Molarity ,And Normality Molar ratio: (between week acid and it's salt, between week base and it's salt.``` | |
|----|---|---|--|
| 6. | Preparation of dilute solutions using stock or concentrated solutions | Preparation of dilute alcohol solution using concentrated alcohol solution Preparation of alcohol solution by using two alcohol solutions without using water | |

Evaluation Strategies:

| Exams | Percentage | Date |
|--|------------|------|
| Mid Exam | 25% | // |
| Final Exam | 50% | // |
| Technique | 10% | |
| Homework and Projects Discussions and lecture Presentations | 15% | // |

Teaching language:

• English

Teaching Methodology:

• Laboratory

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Text Books & References:

1- Pharmaceutical practice, A.J. Winfield, R.M.E. Richards, 3d. edition, 2005, Churchill Livingstone

2- Remington ,The science and practice of pharmacy 21st edition,2004, Lippincott William & Wilkens

3- British Pharmacopoeia 2008, British pharmacopoeia Commission, TSO.

4- The Science of dosage form design, Edin burgh, 2002, New Yourk, Churchill

Livingston