Course Description Form

1. Course Name:
Principles of Pharmacy Practice (Theoretical)
2. Course Code:
Phind24 116--
3. Semester / Year:
1st Semester/1st year(2024-2025)
4. Description Preparation Date:
01/9/2024
5. Available Attendance Forms:
Students' signature on attendance sheet
6. Number of Credit Hours (Total) / Number of Units (Total)
2 hours Theoretical (30) /2 units
7. Course administrator's name
Theoretical
Mohammed Ibrahim Aladul M.i.m.aladul@uomosul.edu.iq Zainab Mohammed Al-Shammaa Zainab.al-shamaa@uomosul.edu.iq
8. Course Objectives
Course Objectives Learning the principles and practice of pharmaceutical calculations and drug compounding, this includes converting numbers and numerals between systems, correlation between house hold measures and pharmaceutical expressions for weight and volume, abbreviations most commonly used in pharmacy, metric system, the prescription or medication order, reducing and enlarging formula as well as learning the principles of ratio strength calculations and the percentage of error.
9. Teaching and Learning Strategies

Strategy	Lecturing Seminars Homework Quiz

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Methods of expression of quantities.	The Roman numbers and numerals, units of weight and volume.	Theoretical lectures.	Paper-based exams
2	2	Calculating the smallest amount of a substance, the error potential.	The percentage of error	Theoretical lectures. .	Paper-based exams
3	2	Types of the Rx, parts of the Rx, examples on Rx.	The prescription or the medication Order.	Theoretical lectures.	Paper-based exams
4	2	Tutorial and practical problems	Tutorial and practi problems	Theoretical lectures.	Paper-based exams

5	2	Abbreviations most commonly used in pharmacy, tables of interconvertion systems.	The metric system	Theoretical lectures.	Paper-based exams
6	2	Knowing the formula that specify a known amount of the drug, formula that specify a known parts of the drug.	Reducing and enlarging formula	Theoretical lectures.	Paper-based exams
7	2	Percentage and ratio strength calculations, w/w %, v/v%, w/v%	Percentage and ratio strength calculations	Theoretical lectures.	Paper-based exams
8	**Mid-term exam**				
9	2	Tutorial and practical problems	Tutorial and practical problems	Theoretical lectures.	Paper-based exams
10	2	Miscellaneous problems regarding calculation of doses, correlating the total amount to the size of dose.	Calculation of doses	Theoretical lectures.	Paper-based exams
11	2	Calculation of dose according to patient weight, calculation of dose according to patient age, practice problems.	Calculation of dose	Theoretical lectures.	Paper-based exams
12	2	Calculation of dose according to body surface area, the use of nomograms in dose calculation, tutorial and practice problems	Calculation of dose	Theoretical lectures.	Paper-based exams
13	**Students' seminars**				

11. Course Evaluation

- 30 M Theoretical assessments;
  (paper-based mid-term exam + attendance + seminar)
- 70 M paper-based theoretical final exam

100 M total

12. Learning and Teaching Resources

Required textbooks	Ansel HC, Stoklosa MJ. Pharmaceutical calculations 13th

	edition Philadelphia, PA: Lippincott. Williams and Wilkins, 2010
Main references (sources)	1. Ansel HC, Stoklosa MJ. Pharmaceutical calculations ,10th , 13th edition Philadelphia, PA: Lippincott. Williams and Wilkins, 2010 2. Remington: The science and practice of pharmacy.
Electronic References, Websites	https://www.pharmacist.com/