



Higher Education Institution Performance Review ((Academic .Program Review))

This course description provides a summary of the main characteristics of the course and the learning outcomes expected of the student, demonstrating whether he has made the most of the learning opportunities available and must be linked to the program description

1. Educational Institution	Ministry of Higher Education and Scientific Research / Al-Zahrawi University
2. University Department / Center	College of Pharmacy / Pharmaceuticals Branch
3. Course Name / Code	Practical Pharmaceutical Technology I / PPCT 35
4. Programs in which it is included	Bachelor of Pharmacy
5. Available Forms of Attendance	Daily attendance
6. Semester / Year	2025-2026 / first course / third stage
7. Total Number of Study Hours	30 hours practical
8. Date of preparing this description	2025
9. Course Objectives:	
The student is taught the basic principles of preparing different dosage forms according to their raw materials, contents, preparation methods, stability, storage and uses, in addition to defining and studying any change in characteristics and properties in the event of an incompatibility .between the materials in the pharmaceutical dose	

1. Learning Outcomes, Teaching and Learning Methods, and Evaluation

A. Knowledge and Understanding

1. Enabling students to have comprehensive knowledge of the concepts of different pharmaceutical doses and enabling them to acquire and understand the methods of preparing them in small scales in the laboratory and pharmacy.
2. Enabling students to identify the theoretical technological rules used in preparing pharmaceutical doses according to their raw materials, contents, preparation methods, stability, storage and uses.

B. Subject-Specific Skills

١. Enabling students to acquire the skills of preparing medicine according to the medical conditions diagnosed by the doctor.
٢. Enabling students to possess the skills of preparing different drug doses.
٣. Enabling students to possess the skills of storing medicines after completing their preparation.

Teaching and Learning Methods

١. Using the smart board.
٢. Conducting practical experiments
3. Writing scientific reports related to practical experiments

C. Evaluation Methods

1. Midterm and final exams
2. Quizzes
3. Small group discussions
4. Practical report evaluation
5. Class activities (posters)

D. Thinking Skills

1. Show educational videos about the given material and use visual education.
2. Use modern methods in preparing lectures and presenting them in PowerPoint format

e. General and Transferable Skills

1. Planning and implementing laboratory experiments using modern equipment and devices
2. Analyzing, interpreting and evaluating experimental data in experimental measurements
3. Acquiring skill in using the computer
4. Giving confidence to the student through presenting scientific research

11. Course Structure					
Evaluation Method	Learning Methods	Unit Name / Course or Topic	Required Learning Outcomes	Hours	Weeks
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Medical abbreviations and introduction	Information about the composition of it and classifications	2	١
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Solution	Preparation of solutions	2	٢
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Drops	Preparation of drops	2	٣
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Ear drops	Preparation of ear drops	2	٤
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Syrup	Preparation of sugar based syrup	2	٥
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Syrups	Preparation of sugar free syrup	2	٦
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Elixir	Preparation of elixir	2	٧
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Lotions	Preparation of lotion	2	٨
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Tinctures	Spirits tinctures	2	٩
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Colloidal dispersions	Colloidal dispersions; lyophobic	2	١٠
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Coarse dispersion	Coarse dispersion; .suspensions	2	١١

Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Coarse dispersion	Coarse dispersion; .suspensions	2	12
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Spirits	Preparation of Spirits	2	13
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Suspension	evaluation of suspension	2	14
Daily written examinations and oral examinations	Using the smart board and conducting scientific experiments	Aromatic waters	Preparation of aromatic water	2	15

12. Course Evaluation

The grade is distributed out of 20 according to the tasks assigned to the student, such as daily preparation, daily, oral, daily and written exams, writing scientific reports for laboratories, etc.

13. Learning and teaching resources

Required books	Ansel's pharmaceutical dosage forms and drug delivery 10th Edition by Loyd Allen (Author)
. Main References (Sources)	- American Pharmacy. - Aulton's Pharmaceutics: The Design and Manufacture of Medicines, 3ed Michael E. Aulton (Author). Churchill, Livingstone- Elsevier

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