

Coarse Description of Principles of Pharmacy Practice First Year Class, First Semester

Pharmacy practice focuses on the pharmacist's expanding role in providing patient-centered care and promoting the safe and effective use of medicines. It integrates pharmaceutical care, clinical pharmacy services, patient counseling, and medication management. The course prepares students to identify drug-related problems and collaborate effectively with healthcare professionals to improve patient outcomes.

1. Educational Institution	Al-Zahrawi University - Ministry of Higher Education and Scientific Research
2. University Department / Center	College of Pharmacy
3. Course Name / Code	Pharmacy Practice
4. Programs in which it is included	Bachelor of Pharmacy
5. Available Forms of Attendance	Classroom attendance
6. Semester / Year	Second Semester / Fourth Year
7. Total Number of Study Hours	45 Hours (3 hours/week × 15 weeks)
8. Date of preparing this description	2026

Course Objectives: This course aims to enable students to:

- Understand the principles and scope of contemporary pharmacy practice.
- Apply the pharmaceutical care process to identify, prevent, and resolve drug-related problems.
- Develop patient-centered communication, counseling, and medication-use skills.
- Understand community and hospital pharmacy practice and the pharmacist's role within the healthcare team.
- Become familiar with major clinical pharmacy services, including medication reconciliation, medication review, therapeutic drug monitoring, antimicrobial stewardship, and adverse drug reaction monitoring.
- Promote safe and rational use of medicines, medication adherence, and patient education.
- Develop documentation, referral, interprofessional collaboration, and clinical decision-making skills.

Learning Outcomes, Teaching and Learning Methods, and Evaluation

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

- Identify and describe major pharmaceutical dosage forms.
- Explain industrial manufacturing procedures for tablets, capsules, liquids, and semisolid dosage forms.

- Explain tablet evaluation and coating processes.
- Compare hard-capsule and soft-capsule manufacturing technologies.
- Describe microencapsulation and its pharmaceutical applications.
- Apply acquired industrial-pharmacy knowledge to pharmaceutical manufacturing practice.

Knowledge and Understanding

- Explain the concepts of pharmacy practice, pharmaceutical care, and patient-centered care.
- Describe the roles of community, hospital, and clinical pharmacists.
- Recognize drug-related problems, medication errors, adverse drug reactions, and adherence problems.
- Understand key clinical pharmacy services and principles of rational medicine use.

Subject-Specific Skills

- Collect and assess patient medication histories.
- Conduct medication review and medication reconciliation.
- Provide effective patient counseling and medication education.
- Identify drug-related problems and propose appropriate pharmacist interventions.
- Document pharmaceutical care plans and communicate recommendations.

Teaching and Learning Methods

Theoretical lectures, PowerPoint presentations, case-based learning, role-play, patient counseling simulations, small-group discussions, and practical pharmacy scenarios.

A. Evaluation Methods

Written examinations, quizzes, case discussions, assignments, patient-counseling exercises, reports, and class participation.

Thinking Skills

- Analyze patient and medication information to identify actual and potential drug-related problems.
- Prioritize pharmaceutical care needs and recommend appropriate interventions.
- Evaluate medication effectiveness, safety, adherence, and monitoring requirements.

Teaching and Learning Methods

Case-based learning, clinical scenarios, group discussions, problem-solving exercises, role-play, and reflective learning.

Evaluation Methods

Evaluation through case analysis, written examinations, quizzes, assignments, presentations, and participation in discussions.

e. General and Transferable Skills

- Communicate effectively with patients and healthcare professionals.
- Work collaboratively within the healthcare team.
- Develop professionalism, leadership, documentation, and lifelong-learning skills.

11. Course Structure					
Wee ks	Hours	Required Learning Outcome s	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	3 HOURS	Knowledge and practical application	Introduction to Pharmacy Practice Scope of pharmacy practice; evolution of the pharmacist's role; patient-centered care and professionalism	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
2	3 HOURS	Knowledge and practical application	Pharmaceutical Care Concept, philosophy, goals, pharmaceutical care process, patient assessment, care plan, follow-up and documentation	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
3	3 HOURS	Knowledge and practical application	Patient Communication and Counseling Effective communication; patient interviewing; counseling techniques; health literacy; special communication needs	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
4	3 HOURS	Knowledge and practical application	Medication History and Medication Reconciliation Best possible medication history; transitions of care; identifying and resolving discrepancies	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
5	3 HOURS	Knowledge and practical application	Drug-Related Problems and Pharmacist Interventions Identification, classification, prioritization, intervention, follow-up and documentation	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
6	3 HOURS	Knowledge and practical application	Medication Review and Medication Therapy Management Comprehensive medication review; appropriateness, effectiveness, safety and adherence assessment	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
7	3 HOURS	Knowledge and practical application	Community Pharmacy Practice and Services Prescription processing; OTC care; minor ailments; referral; public health and preventive services	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
8	3 HOURS	Knowledge and practical application	Hospital Pharmacy Practice and Clinical Services Hospital pharmacy organization; inpatient medication systems; ward-based clinical pharmacy services	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
9	3 HOURS	Knowledge and practical application	Clinical Pharmacy Services: Therapeutic Drug Monitoring Principles of TDM; patient selection; sampling; interpretation and	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment

			pharmacist recommendations		
10	3 HOURS	Knowledge and practical application	Medication Safety and Medication Errors Medication-use process; types and causes of medication errors; prevention and reporting systems	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
11	3 HOURS	Knowledge and practical application	Adverse Drug Reactions and Pharmacovigilance Detection, assessment, documentation and reporting of ADRs; pharmacist role in pharmacovigilance	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
12	3 HOURS	Knowledge and practical application	Antimicrobial Stewardship Rational antimicrobial use; resistance; stewardship principles; pharmacist clinical responsibilities	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
13	3 HOURS	Knowledge and practical application	Medication Adherence and Chronic Disease Support Assessment of adherence; barriers; adherence interventions; pharmacist support in chronic disease management	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
14	3 HOURS	Knowledge and practical application	Evidence-Based Pharmacy Practice and Drug Information Drug-information resources; answering clinical questions; evaluating evidence and communicating recommendations	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment
15	3 HOURS	Knowledge and practical application	Integrated Pharmaceutical Care and Clinical Case Review Comprehensive patient cases integrating medication review, counseling, safety, adherence, monitoring, documentation and referral	PowerPoint presentations, case-based learning, discussion, role-play and practical scenarios	Quizzes, assignments, case discussion, oral questions and written assessment

12. Infrastructure	
Required Readings:	Required references: standard Pharmacy Practice and Clinical Pharmacy textbooks, current clinical guidelines, formularies, and approved drug-information resources.
Special Requirements (Workshops, Journals, Software, Websites):	Electronic drug-information databases, clinical guidelines, scientific journals, patient counseling materials, and case-based learning resources.
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	Guest lectures, pharmacy practice workshops, professional training, simulated patient activities, and field visits where applicable.

13.	
Prerequisites	Admission according to the central academic plan
Minimum Number of Students	Not specified
Maximum Number of Students	According to the approved admission capacity

Name of the Instructor: Assistant Professor Dr. Salam Waheed Ahjel