Kermanshah University of Medical Sciences

School of Nursing and Midwifery

Department of Medical-Surgical Nursing

Course plan and Self-Assessment Checklist for Internship and Practicum Courses

Course Title: Nursing Internship in Pharmacotherapy

Instructor(s): Akram Ghobadi

In compliance with the principles of the curriculum approved by the Ministry of Health, Treatment, and Medical Education.

General Course Structure

- **Course Title: Nursing Internship in Pharmacotherapy**
- **Course Code: 53**
- **Level and Field/Semester: B.Sc. in Nursing / 2rd Semester (International students)**
- **Credits: Total: 1 credit (comprising a 1-credit internship(**
- **Prerequisites: Pharmacology**
- **Corequisites: None**
- **Instructor(s) (credit allocation per instructor): Akram Ghobadi**
- **Course Duration: 10 days | Offering Period: First Semester, 1405-1406**
- **Student Consultation Hours: During internship hours**
- **Training Setting: Skills Lab (2 days;(Pharmacy and various wards of Imam Ali (AS) Hospital**

Educational content based on the course syllabus

General Course Objective *(Based on the Curriculum)*

- To provide an appropriate learning environment for the **application of scientific knowledge, medication dosage calculations, identification of indications and adverse effects of medications, provision of nursing care before, during, and after pharmacotherapy, and patient and family education regarding medication therapy in simulated and real-life clinical settings.**

- **General Objectives of the Sessions** *(One objective for each session)*

Session 1:
To become familiar with the objectives, rules, and regulations of the clinical practicum, and to develop appropriate communication skills with patients and their families.

Session 2:
To become familiar with medication Kardex documentation and develop the skills required for accurately recording medications.

Session 3:
To become familiar with the principles of safe and appropriate medication therapy.

Session 4:
To become familiar with the various routes of medication administration.

Session 5:
To become familiar with the principles of antibiotic administration.

Session 6:
To become familiar with and develop skills in intravenous (IV) fluid therapy.

Session 7:
To become familiar with medication administration in special clinical situations.

Session 8:
To become familiar with medications available in the emergency crash cart.

Session 9:
To become familiar with cardiovascular medications.

Session 10:
To become familiar with analgesic and gastrointestinal medications.

Specific Learning Objectives by Session

Session 1

Overall Objective:
To familiarize students with the objectives, rules, and regulations of the clinical practicum and with appropriate communication with patients and their families.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Describe the objectives of the clinical practicum.
2. Identify the rules and regulations governing the clinical practicum.
3. Describe the clinical practicum evaluation process.
4. Explain the principles of patient identification prior to medication administration.

5. Demonstrate appropriate communication with the patient and the patient's family during medication administration.

Session 2

Overall Objective:
To familiarize students with medication Kardex documentation and develop their skills in accurately recording medication orders and administration information.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the different forms of medications.
2. Identify and use the standard abbreviations for medication forms when documenting medications in the Kardex.
3. Identify the different types of medication names, including generic and brand names.
4. Identify commonly used trade names of medications.
5. Identify and interpret abbreviations used for different routes of medication administration.
6. Identify medication administration schedules and frequencies (e.g., the number of doses per day).

Session 3

Overall Objective:
To develop students' knowledge of the principles of safe and appropriate medication therapy.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the ten rights of safe medication administration.
2. Identify important drug–drug and drug–food interactions.
3. Describe special considerations and precautions for the administration of selected medications.
4. Describe infection prevention and control measures during medication administration.

Session 4

Overall Objective:
To familiarize students with various routes and methods of medication administration.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the different injection routes used for medication administration.
2. Identify non-injectable routes and methods of medication administration used in emergency situations.
3. Identify the different oral methods of medication administration.
4. Identify medications that are administered in suppository form.
5. Identify commonly used antidotes.

Session 5

Overall Objective:
To familiarize students with intravenous fluid therapy and develop their skills in its safe administration.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the different types of intravenous fluids.
2. Identify the different types of intravenous solutions.
3. Identify and prepare the equipment required for intravenous fluid therapy.
4. Demonstrate appropriate monitoring and safe care of suitable intravenous access sites.
5. Calculate the intravenous drip rate (drops per minute).

Session 6

Overall Objective:
To familiarize students with the principles of antibiotic administration and develop their skills in the safe preparation and administration of antibiotics.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the major classes of antibiotics.

2. Describe the preparation of different antibiotics using compatible diluents and solutions.
3. Identify common, acute, and potentially serious adverse effects of selected antibiotics.
4. Describe the stability of antibiotics at room temperature and under refrigerated conditions.
5. Demonstrate appropriate administration and infusion-rate adjustment of prepared antibiotic solutions.

Session 7

Overall Objective:
To familiarize students with medication administration in special clinical situations.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Describe medication-related considerations in neonates.
2. Describe medication-related considerations in older adults.
3. Describe medication-related considerations during pregnancy.
4. Identify medication risk categories and safety considerations during pregnancy.
5. Describe medication-related considerations in patients with chronic kidney disease (CKD).
6. Describe medication-related considerations in patients with hepatic impairment.
7. Describe medication-related considerations in patients with heart failure.
8. Identify medication-administration considerations for patients with restrictions or limitations involving a particular limb or extremity.
9. Describe the appropriate procedure for reporting adverse drug reactions (ADRs).

Session 8

Overall Objective:
To familiarize students with emergency medications contained in the crash cart.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify the emergency medications included in the crash cart according to the most recent applicable guidelines or institutional protocol.
2. Identify the required quantity of each medication in the crash cart according to the most recent applicable guidelines or institutional protocol.

3. Identify the designated location of each medication within the crash cart according to the most recent applicable guidelines or institutional protocol.
4. Explain the emergency indications and clinical uses of medications contained in the crash cart.

Session 9

Overall Objective:
To familiarize students with commonly used cardiovascular medications.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify beta-adrenergic receptor blockers and commonly used examples.
2. Identify angiotensin receptor blockers (ARBs) and commonly used examples.
3. Identify calcium channel blockers and commonly used examples.
4. Identify antiarrhythmic medications and commonly used examples.
5. Identify antihypertensive medications and commonly used examples.

Session 10

Overall Objective:
To familiarize students with analgesic and gastrointestinal medications.

Specific Behavioral Objectives:

By the end of the session, the student will be able to:

1. Identify opioid analgesics.
2. Identify non-opioid analgesics.
3. Identify commonly used antacid medications.
4. Identify proton pump inhibitors (PPIs).
5. Identify H2 blockers.

Session	General Topic of the Session	Course Instructor
Session 1	Familiarization with the objectives, rules, and regulations of the clinical practicum and appropriate communication with patients and their families	**Dr. Akram Ghobadi**
Session 2	Familiarization with medication Kardex documentation and development of medication documentation skills	**Dr. Akram Ghobadi**
Session 3	Familiarization with the principles of safe and appropriate medication therapy	**Dr. Akram Ghobadi**
Session 4	Familiarization with various routes and methods of medication administration	**Dr. Akram Ghobadi**
Session 5	Familiarization with intravenous fluid therapy and development of related skills	**Dr. Akram Ghobadi**
Session 6	Familiarization with antibiotic administration	**Dr. Akram Ghobadi**
Session 7	Familiarization with medication administration in special clinical situations	**Dr. Akram Ghobadi**
Session 8	Familiarization with emergency medications contained in the crash cart	**Dr. Akram Ghobadi**
Session 9	Familiarization with cardiovascular medications	**Dr. Akram Ghobadi**
Session 10	Familiarization with analgesic and gastrointestinal medications	**Dr. Akram Ghobadi**

Daily Work Schedule During the Clinical Practicum

Given the dynamic nature of the clinical environment and the conditions of the assigned clinical ward, the daily schedule and activities may be adjusted or rearranged as necessary according to the needs of the clinical setting and educational requirements.

Time	Activity
8:00–10:00	**Educational activities**, including conferences, group discussions, and review of medications relevant to the clinical setting
10:00–10:30	**Break**
10:30–12:30	**Clinical activities** in the clinical wards and medication room

Expected Educational Skills to Be Acquired by Students at the End of the Course

In accordance with the course curriculum, students are expected to acquire and demonstrate proficiency in the following skills by the end of the course:

- **Effective communication with patients**
- **Identifying and appropriately applying different classes of medications**
- **Safe and accurate medication administration**
- **Intravenous fluid therapy and administration**
- **Timely and appropriate use of medications available in the emergency crash cart**
- **Accurate medication dosage calculations**
- **Medication documentation and preparation of medication Kardex**

Teaching Methods

■ Lecture
■ Panel Discussion

■ Problem-Based Learning (PBL)
□ Team-Based Learning (TBL)

■ Student-Led Seminar Presentation
■ Clinical Practice / Clinical Work

■ Bedside Teaching / Patient-Simulation Teaching
□ Field Trip

□ Role Play
□ Simulation

■ Case-Based Discussion (CBD)
□ Morning Report

■ Clinical Rounds
□ Grand Rounds

□ Outpatient/Clinic-Based Teaching

□ Other: _____

Instructional / Teaching Aids

■ **Slides (PowerPoint)**
■ **Educational Videos**
□ **Poster**
□ **Models**
■ **Patient Examples / Patient Specimens**
□ **Simulated Patient**
□ **Software**
□ **Pamphlets**
□ **Handouts**
□ **Other: _____**

Course Assessment Methods and Final Grade Determination

□ **Objective Structured Clinical Examination (OSCE)**
■ **Direct Observation of Procedural Skills (DOPS)**
□ **Quiz**
□ **Final Written Examination / End-of-Term Written Examination**
□ **Midterm Written/Oral Examination**
□ **Project**
□ **Research Project**
■ **Seminar**

■ **Active Participation (Attendance and Clinical/Practical Activities)**
□ **Logbook**
■ **Portfolio**
□ **Mini-Clinical Evaluation Exercise (Mini-CEX)**
□ **Other: _____**

No.	Assessment Method	Type of Assessment	Percentage of Total Final Grade	Description
1	**Formative Assessment (Throughout the Course)**	Compliance with rules and regulations, active participation, completion of assignments, and DOPS	**80%**	Continuous assessment of the student's performance and participation throughout the course
2	**Summative Assessment (End of the Course)**	OSCE	**20%**	Final practical/clinical assessment at the end of the course

Educational Resources and References

■ Primary / Core References:

1. Katzung BG, Vanderah TW. Basic & Clinical Pharmacology. 16th ed. New York: McGraw-Hill Education; 2024.

2. Ren J, Kern M. Pharmacology: Connections to Nursing Practice. 5th ed. London: Pearson; 2021.

■ Secondary and Supplementary References:

■ Online Databases and Resources:(Online Databases & Websites)

Course Rules and Regulations

- **Punctual Attendance:** Students are required to arrive on time for all clinical practicum sessions.
- **Timely Submission of Assignments:** All assignments must be completed and submitted by the specified deadlines.
- **Professional Conduct:** Students are expected to maintain professional and ethical conduct in their interactions with patients, instructors, and healthcare staff.
- **Professional Attire and Identification:** Students must adhere to the required professional dress code and wear their identification badges at all times during clinical practice.
- **Active Participation:** Students are expected to participate actively and responsibly throughout the course.
- **Mobile Phone Policy:** Students are not permitted to carry or use mobile phones in the clinical setting.
- **Academic Integrity and Plagiarism:** Students must comply with academic integrity standards and refrain from cheating and plagiarism. All patient-related information used in assignments and educational activities must be based on **accurate, real patient data**, with strict adherence to patient confidentiality and privacy requirements.

Course Plan Evaluation Checklist for Clinical Practicum and Internship Courses Kermanshah University of Medical Sciences

Name and Surname of Faculty Member(s) (Teaching Contribution): Akram Ghobadi

School / Hospital: School of Nursing and Midwifery

Course Title: Clinical Pharmacology Practicum

Target Learners / Academic Semester: Second-Semester International Nursing Students

Current Academic Year and Semester: First Semester, 1405–1406

Name of Evaluator(s): Vahab Karamivand

No.	Criteria	Score Obtained	Maximum Score	Remarks
1	**Clarity of the overall course title, course name, and course code**	0.5	0.5	
2	**Clarity of the name of the school/faculty and academic department**	0.5	0.5	
3	**Clarity of the course schedule**	0.5	0.5	
4	**Clarity of the course description and prerequisite/corequisite requirements**	1	1	
5	**Clarity of the course duration**	0.5	0.5	
6	**Clarity of the overall course objectives**	0.5	0.5	
7	**Clarity of the overall course structure**	2	2	
8	**Clarity of students' roles and responsibilities**	2	2	
9	**Clarity of the daily/ward work schedule**	1	1	
10	**Clarity of the learning resources used**	2	2	
11	**Clarity of the specific objectives for each section/clinical area**	4	4	
12	**Clarity of the teaching methods used during the course**	1	1	
13	**Clarity of the assessment methods and determination of the final course grade**	3	3	
14	**Inclusion of the skills assessment checklist**	0.5	0.5	
15	**Clarity of the course rules and regulations**	1	1	
Final Score		**20**	**20**	

Suggestions:

Name and Signature of Instructor(s): Date of Submission:
Name and Signature of Head of Department: Date of Submission to the Department:
Name and Signature of Faculty EDO Officer:
Date of Submission to the Faculty EDO Office: