## A COURSE MODULE DESCRIPTOR FORM

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| Module Information |
| **Course Module Title** | Pharmacology for Nursing |
| **ناوى کۆرس مۆدیول** | دەرمانناسی بۆ پارستیار  |
| **عنوان الوحدة** | **علم الأدوية للتمريض** |
| **Course Module Type** | Core | **Module Code** | NU303 |
|  **ECTSs**  | 5 |
| **Department** | Nursing |
| **Department Code** | NU |
| **Module Website (CMW)** | [List of Modules (noble.edu.krd)](https://noble.edu.krd/lms/classes.php) / [Noble Insitute – Noble Institute](https://noble.edu.krd/) |
| **Module Leader (ML)** |  Narmin Mahmoud |
| **NTI - E - mail** | **Narmin.Ismail@noble.edu.krd** |
| **ML Acad. Title** | Assistant Lecture  |
| **ML ORCID** | https://orcid.org/0000-0003-3174-1066 |
| **ML Google Scholar Acc** | Narmin.kurdneth@gmail.com |

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| Relation with Other Modules |
| **Pre-requisites** | None  |
| Module Aims, Learning Outcomes and Indicative Contents |
| Module Introductory Description | Pharmacology is the study of drugs and their origin, nature, properties, and effects on the human body. For this reason, the study of pharmacology is important for all pursuing a healthcare-related field, especially for nursing. Pharmacology helps nurse to be well rounded and provides a source of practical knowledge for daily work in the healthcare setting. Pharmacology is more than ‘passing a pill’. You are going to learn about medications’ action, classification, dosages, nursing implications, side effects, and more. Once you learn some basic pharmacology principles, you will recognize the ability of medications to cure a disease or improve the quality of life for your patient. Learning about medications and the nursing process will help you to become a much safer nurse when it comes to administering medications.  |
| Module Aims | Pharmacology helps students to be well rounded and provides a source of practical knowledge for daily work in the healthcare setting |
| Module Learning Outcome |  Upon successful completion of this course, students will be able to:1. Have a comprehensive knowledge of all the basic principles in Pharmacology
2. Understand and classify drugs according to their group, mechanism of action and therapeutic uses.
3. Field of medicine that specializes in the study of drugs, their sources, appearance, chemistry, actions, and uses.
4. The requirements drugs as therapy, applying and selecting medication to specific disease.
5. Rationale usage of medicinal drugs as their group family of drugs, their doses and dosage forms, drug-drug interactions, and drug-food interactions.
6. Identification of action and potential harmful effects of medications and chemical compounds to humans, and to provide for their prevention and treatments.
7. Pharmacodynamics – Study of how drugs interact in the human body
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| Learning and Teaching Strategies |
| **Strategies** | The teaching consists of Lectures, discussion groups, tutorials, problem solving and seminars. The instructions are partially or completely in English. Emphasis is placed on the student's ability to collect and process material as well as the student's ability to write and make oral presentation on the efficacy and safety of pharmaceutical drugs. |

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| **Required texts and References** |
| 1. ***Drug delivery systems: An updated review***
2. [***Gaurav Tiwari***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tiwari%20G%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***,***[***Ruchi Tiwari***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tiwari%20R%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***,***[***Birendra Sriwastawa***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sriwastawa%20B%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***,1***[***L Bhati***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bhati%20L%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***,2***[***S Pandey***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pandey%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***,***[***P Pandey***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pandey%20P%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***, and***[***Saurabh K Bannerjee***](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bannerjee%20SK%5BAuthor%5D&cauthor=true&cauthor_uid=23071954)***3***
3. [***Author information***](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3465154/)[***Copyright and License information***](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3465154/)[***Disclaimer***](https://www.ncbi.nlm.nih.gov/pmc/about/disclaimer/)
4. ***Moghimi SM, Hunter AC, Murray JC. Long-circulating and target-specific nanoparticles: Theory to practice. Pharmacol Rev. 2001;53:283–318. [***[***PubMed***](https://www.ncbi.nlm.nih.gov/pubmed/11356986)***] [***[***Google Scholar***](https://scholar.google.com/scholar_lookup?journal=Pharmacol+Rev&title=Long-circulating+and+target-specific+nanoparticles:+Theory+to+practice&author=SM+Moghimi&author=AC+Hunter&author=JC+Murray&volume=53&publication_year=2001&pages=283-318&pmid=11356986&)***]***
5. ***Moini, J. (2015). The Pharmacy Technician, A Comprehensive Approach, 3rd Edition. Boston, MA: Cengage Learning.***
6. ***Moscou, K & Snipe, K. (2019). Pharmacology for Pharmacy Technicians, 3rd Edition. St. Louis: MO:Elsevier Mosby.***
7. ***Moscou, K & Snipe, K. (2019). Workbook - Pharmacology for Pharmacy Technicians, 3rd Edition.St. Louis: MO: Elsevier Mosby***
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| Module Delivery |
| **Total workload** |
| **Contact Theoretical Hours – Per semester** | 2 |
| **Contact Practical Hours – Per Semester** | NA |

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| **Module Activities** | **Time /Number** | **Weight (Marks)** | **Week Due** |
| Contact hours - Participation | Weekly bases  | 5% | 1 to 12 |
| (Science / Lab)(Social science / Critical thinking) | 1 | 5% |  |
| Presentation /Seminar | 1 | 5% | 7-12 |
| Tutorial | 1 | 5% |  |
| Quiz | 2 | 5% | 4,6,8 |
| Self-study |  | 5% | 1 to 12 |
| Projects | 1 | 5% | 3,5,7,9 |
| Oral assessment | 1 | 5% | 5 |
| Midterm Exam  | 1 | 20% | 8 |
| Final Exam | 1 | 40% |  |
| **Total** |  | 100% |  |

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| Delivery Plan (Designed Syllabus) |
|  | **Course Module Content/ theory** |
| Week 1 | 1. Introduction to Principles of Pharmacology
2. Define basic pharmacological terminology.
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| Week 2 | 1. administration Apply general concepts of pharmacokinetic and pharmacodynamics processes and their application in drug therapy and the nursing process.
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| Week 3 | 1. Routes of Administration and Dosage forms
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| Week 4 | 1. Compare the routes of drug administration and dosages
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| Week 5 | 1. Drug classification per system
 |
| Week 6 | 1. Understand and classify drugs according to their group, mechanism of action and therapeutic uses.
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| Week 7 | 1. Continue with drug classification
 |
| Week 8 | **Midterm exam**  |
| Week 9 | 1. Nursing Rights of Medication Administration
 |
| Week 10 | 1. The requirements drugs as therapy, applying and selecting medication to specific disease.
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| Week 11 | 1. Drug Dosage Calculation
 |
| Week 12 | 1. Continue with week 9
 |
| Week 13 |  **Seminar** |
| Week 14 | **How to read prescriptions**  |
| Week 15 | **Medication side effects and adverse drug reaction**  |
| Week 16 | **Project about the role of nursing to report ADR**  |
| Week 17 | **Quick revision - overall** |
| Week 18 | **Final exam session** |

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|  | **Course Module Content/ practical** |
| Week 1 | Activities on drug classes  |
| Week 2 |  |
| Week 3 |  |
| Week 4 |  |
| Week 5 |  |
| Week 6 |  |
| Week 7 |  |
| Week 8 |  |
| Week 9 |  |
| Week 10 |  |
| Week 11 |  |
| Week 12 |  |
| Week 13 |  |
| Week 14 |  |
| Week 15 |  |
| Week 16 |  |
| Week 17 |  |
| Week 18 |  |

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| Course Keywords |
| Drug delivery, drug classification, drug actions ,drug safety  |