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# Course Syllabus

## PHL366– Pharmacology

## College of Nursing

## 1437/1438-2nd semester

### *Instructor Information*

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### *Course Identification*

Course Number: PHL366

Course Name: Pharmacology

***Course Description***

**Introduction:**

This course is designed to introduce students to the nurse’s role and responsibilities of medication administration and the basic principles of pharmacology. It presents introductory core concepts of pharmacology including drug regulations, classifications, categories, delivery systems calculations, drug administration. It presents intermediate medical / surgical core concepts of clinical pharmacology which includes major body systems, diseases / disorders, and methods drugs are used therapeutically to treat them.

**Course Objectives:**

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

1. Develop knowledge of commonly used drugs and their action

2. Describe fundamental concepts underlying a holistic approach to pharmacotherapy.

3. Identify drug regulations that have ensured the safety and efficacy of medications.

4. Explain legal and ethical issues related to medication administration.

5. Explain principles of drug administration

6. Discuss medication administration as a component of safe, effective nursing care, utilizing the nursing process.

7. Describe the roles and responsibilities of the nurse regarding medication administration.

8. Describe drug’s mechanism of action.

9. Discuss factors affecting drugs administration.

10. Explain the proper methods of drug administration

11. Compare and contrast systems of measurement used in pharmacology

12. Explain pharmaceutical preparation of drugs

13. Relate the importance of Drugs for the Pain Control to effective pharmacotherapy.

14. Describe the nurse’s role in the pharmacological management of different body system disorders.

15. Describe the nurse’s role in the pharmacological management of nutritional disorders.

16. Describe the nurse’s role in the pharmacologic management of Herbal and Alternative Therapies.

17. Describe the nurse’s role in the pharmacologic management of Substance Abuse.

18. Describe the nurse’s role in the pharmacologic management of Drugs for different Infections.

19. Explain importance of drugs in the context of emergency preparedness.

20. Explain possible future developments in the field of pharmacogenetics.

**Teaching Methodology:**

***The following instructional strategies are used:***

* Lectures
* Discussions
* Case study
* Multimedia
* Self learning

**Assessment Tools:**

Total Marks = 100 Marks; distributed as follows:

* Participation 10 Marks
* Quizzes 10 Marks
* 1st Midterm 20 Marks
* 2nd Midterm 20 Marks
* Final exam 40 Marks

**References:**

* Adams, M., Josephson, D. and Holland, L. (2010) Pharmacology for Nurses: A Pathophysiologic Approach. New York: Prentice Hall Companione Website. http://wps.prenhall.com/chet\_adams\_pharmacology\_1/17/4583/1173501.cw/main/index.html
* Lehne, A., Richard (2010). Pharmacology for Nursing Care. 7th ed. Missouri: Saunders. ISBN 978-1-4160-6249-3.
* Clayton, B., Stock,Y., Cooper, S. (2009). Basic Pharmacology for Nurses. 15th ed. Indiana: MOSBY. ISBN 10: 0-323-05780-2.

***Course content for PHL (Sunday Section)***

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| **Week** | **Day** | **Topic/s** |
| 1 | Tuesday  | Introduction to the course |
| 2 | Tuesday | Introduction to Pharmacology |
| 3 | Tuesday | Principles of Drugs |
| 4 | Tuesday | Drugs Affecting Autonomic Nervous System 1 |
| 5 | Tuesday | Drugs Affecting Autonomic Nervous System 2 |
| 6 | Tuesday | Drug acting on the Heart |
| 7 | Tuesday | 1st Midterm Exam |
| 8 | Tuesday | Antihypertensive Agents |
| 9 | Tuesday | Bronchodilators |
| 10 | Tuesday | Antihistamines, Decongestants, & Antitussives |
| 11 | Tuesday | 2nd Midterm Exam |
| 12 | Tuesday | Drugs Affecting the Gastrointestinal System |
| 13 | Tuesday | Diuretic Agents |
| 14 | Tuesday | Opioid Agents |
| 15 | Tuesday | Sedatives |
| 16 | Tuesday | Antibiotics |
| 17 | Tuesday | Revision |
| 18 | Tuesday | Final Exam |

***GOOD LUCK***

- See more at: <http://fac.ksu.edu.sa/abdalshehri>