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**KING SAUD UNIVERSITY**

**COLLEGE OF NURSING**

**2nd Semester 1437 – 1438 (2016/2017)**

**COURSE SYLLABUS**

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| **Course No.:**  **Course Title:**  **Credit Hours:**  **Pre-requisite:**  **Co-requisite:**  **Level:**  **Name of Faculty:** | NURS 424  Applied pharmacology  2 (2+0+0)  PHL 366  None  Eight  Dr. Ruqayya S. Zeilani,Rn, MSN, PhD ( Course Coordinator)➀ |
|  | Dr. Irene Roco, RN, MSN, PhD➁  Dr. Thurayya Eid, RN, MSN, PhD➂ |

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| **COURSE DESCRIPTION** |
| 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 body systematic concept of pharmacological applications, including drug regulations, delivery systems calculations and drug administration in order to maintain safe practice. |

**COURSE OBJECTIVES**

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

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| 1. Understand the basic principle of Pharmacology. 2. Recognize the rights of medication administration. 3. Identify the classification of drugs, mechanism of action, effects, indications, contraindications and pharmacokinetics relative to a specific disease according to body systems. 4. Demonstrate the ability to calculate drug dosages, IV fluids and drugs safely. 5. Prepare a drug education plan for a specific medication to the client and family. 6. Demonstrate understanding of the rights of medication administration to clients with. 7. Determine significant nurses’ role in medication administration. 8. Document therapeutic and non therapeutic effects of medications taking cognizance of the legal and ethical aspects of medication administration. 9. Formulate a drug study utilizing a drug study guide. |

**WEEKLY CLASS SCHEDULE**

| **Week**  **No.** | **Date** | **Topic for Discussion** | **Thursday**  **11:00 – 1:00** |
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| 1 | Feb. 12-16 | Orientation & Introduction to Pharmacology 1 | Dr. Ruqayya |
| 2 | Feb. 19-23 | Introduction to Pharmacology 2/ principle of Medication administration & Medication safety | Dr. Ruqayya |
| 3 | Feb. 26-Mar 2 | Drugs Affecting Autonomic Nervous System 1 – Adrenergic | Dr. Ruqayya |
| 4 | March 5-9 | Drugs Affecting Autonomic Nervous System 2 – Cholinergic | Dr. Ruqayya |
| 5 | March 12-16 | Drugs acting on the Heart (Anti angina, antidysrhythmics & Heart failure) | Dr. Thuraya-( group work in class- 5 marks). |
| 6 | March 19-23 | Antihypertensive Agents 1 | Dr. Thuraya |
| 7 | March 26-30 | **MIDTERM EXAMINATION** |  |
| 8 | April 2 - 6 | BREAK |  |
| 9 | April 9 – 13 | **(1)**Antihypertensive Agents | Dr. Thuraya |
| 10 | April 16 - 20 | 2Antibiotics (1) | Dr. Irene |
| 11 | April 23 -27 | Antibiotics (2) | Dr. Irene |
| 12 | April 30 – May 4 | Pain Medications & NSAID  **[Quiz 2 (antibiotics, pain and NSAID)].** | Dr. Thuraya |
| 13 | May 7-11 | Drugs affecting the digestive system: GERD, PUD, Gastritis & Constipation (1) | **Dr. Irene** |
| 14 | May 14- 18 | Drugs affecting the digestive system: GERD, PUD, Gastritis & Constipation (2) | **Dr. Irene** |
| 15 | May 21 – 25 | Drugs affecting the respiratory system: Antihistamine, Antitussives & Bronchodilator | **Dr. Irene** |
| 16 | May 28 – June 1 | Drugs used in Metabolic disorders (Diabetes & Thyroid dysfunction) | **Dr. Irene** |
|  |  | Final Exam |  |

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| **REQUIRED TEXTBOOK** |
| Vallerand, A. H., Sanoski, C. A., & Deglin, J.H. (Eds.). (2011). *Davis's drug guide for nurses* (13th ed.). Philadelphia, PA: F. A. Davis Co. |
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| **ESSENTIAL REFERENCES** |
| Nursing Pharmacology Made Incredibly Easy. Wolters Kluwer 3rd Edition © 2013 Lippincott Williams & Wilkins |
| Clinical Pharmacology Made Incredibly Easy! 3rd Edition © 2009 Lippincott Williams & Wilkins |
| Lilley, Collins, Harrington &Snyder. Pharmacology and the Nursing Process. Mosby. 6th Ed. Copyright 2011 |

**EVALUATION METHODS**

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| First Midterm Exam | 20% |
| Assignments (1 and 2) | 20% |
| Quizzes | 15% |
| Participation | 5% |
| Total Semester Grade | 60 % |
| Final Exam | 40% |