**Course Description**

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| **Faculty** | **Pharmacy** |
| **Department**  | **Clinical Pharmacy** | **Level** |  |
| **Course**  | Over the counter  | **Code** | 1702404 | **Prerequisite** | 1702332 |
| **Credit hours** | 3 | **Theoretical**  |  | **Practical** |  |
| **Coordinator** | Dr. Manal Al soub | **Email** |  |
| **Teachers** |  | **Emails** |  |
| **Lecture Time** |  | **Place** |  | **Attendance mode** |  |
| **Semester**  |  | **Preparation date**  |  | **Modification Date** |  |

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|  **Abstracted Course Description**  |
| This course enables pharmacy students to follow health care practitioners, and consumers by making available comprehensive, convenient and easy-to-use compilation of information on nonprescription drugs and drug products. Students practice interviewing and counseling skills, and continue to develop their skills in over the counter drugs (OTC) counseling with new topics, including some alternative medicine. Emphasis will be placed on mechanism(s) of action of the various drug classes, body system(s) affected, clinical manifestations of problems and the resulting adverse effects.  |
| **Course Goals** |
| 1-Enable students to efficiently grasp the clinical features of various diseases.2-Provide insights into the principles of drug action for each non-prescription drug.3-Ensure students are familiar with generic names of key non-prescription drugs.4-Cover mechanisms of pharmacologic action, therapeutic uses, adverse effects, precautions, and contraindications for each drug class. |

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| **CILOs** |
| **Knowledge** |
| A.1 To increase students’ knowledge of non-prescription products and the monitoring devices used at home and available in the Jordanian marketA.2 To provide students with the needed knowledge to recommend specific non-prescription products and/or other modes of care to alleviate specific conditions.A.3 knowledge to differentiate between rational and irrational use of nonprescription products |
| **Skills** |
| * B.1 To be able to differentiate between symptoms warranting the supervision of a medical doctor and those that can be self-treated
* B.2 To be able to recommend a specific OTC product suitable for each symptom presented to the pharmacist
* B3 being able to deal with special populations of patients and provide the necessary counseling (i.e. geriatric patients, cases of comorbidity or polypharmacy)

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| **Competencies** |
| C.1 Practical skills of (e.g. use of In-home testing and monitoring devices).C.2 Practical skills of pharmacist-patient communication skills.C.3 Practical skills of being able to differentiate between rational and irrational use of OTC products . |
| **Learning Methods** |
| * Lecture material and notes ,Homework and Assignments, Projects, Presentation,
 |
| **Evaluation Tools** |
| Exams,Presentation, project, assignments. |
| **Week** | **Topics** | **Learning methods** | **Evaluation tool** | **ILOs** | **Hours** |
| **1.** | **CNS diseases**HeadacheFeverInsomniaMusculoskeletal Injuries and Disorders Fatigue and drowsiness | lectures | Quiz | **A1,a2,b1,b2,c1** | **3** |
| **2.** | **Respiratory diseases**Allergic Rhinitis Cough Common cold | lectures | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **3.** | **Gastrointestinal diseases**Constipation Diarrhea Dyspepsia Heartburn Nausea and vomiting Anorectical disorders Intestinal gases |  | Quiz | **A1,a2,b1,b2,c1** | **3** |
| **4.** | **Nutrition and Nutritional Supplementation**Essential and Conditionally Essential NutrientsFunctional and Meal Replacement FoodsSports Nutrition and Performance-Enhancing NutrientsInfant Nutrition and Special Nutritional Needs of Children Overweight and Obesity | Homework and Projects, Presentation | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **5.** | **Ophthalmic Disorders**Allergic conjunctivitisDry EyesPrevention of Contact Lens-Related DisordersIrrigating solutions for eyes | lectures | Exams | **A1,a2,b1,b2,c1** | **3** |
| **6.** | **Otic diseases**Impacted ear cerumen Water clogged ears | lectures | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **7.** | **Oral diseases**Dental cariesTooth hypersensitivity Mouth ulcers Denture stomatitis Bad breath |  |  | **A1,a2,b1,b2,c1** | **3** |
| **8.** | **Dermatological diseases**Acne PsoriasisContact dermatitis Hair lossAbnormal air growth Napkin dermatitis Dry skinSun –induced skin diseasesPrickly heat VilitigoDandruffSebohrric dermatitis Corns and callusesInsect Bites and Stings and PediculosisSkin Hyperpigmentation Photoaging | Homework and Projects, Presentation | Exams | **A1,a2,b1,b2,c1** | **3** |
| **9.** | **Reproductive diseases** ContraceptivesPregnancy tests | lectures | Assignments, | **A2,a3,b1,b3,c2,c3** | **3** |
| **10.** |  Revision  | Projects, Presentation | Exams | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** | **3** |
| **11.** |  Revision  | Projects, Presentation | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **12.** |  Revision  | Projects, Presentation | Exams | **A1,a2,b1,b2,c1** | **3** |
| **13.** |  Revision  | Projects, Presentation | Exams | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** | **3** |
| **14.** |  |  |  |  |  |
| **15.** | **Final exam**  |  |
| **16.** |  |  |  |  |  |
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| **Plan of Course Evaluation** |
| **Evaluation Tools** | **Mark** | **ILOs** |
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| **First Exam (Mid-term)**  | **30%** | **A1,a2,b1,b2,c1** |  |  |  |  |  |
| **Second Exam (If available)** |  |  |  |  |  |  |  |
| **Final Exam** | **50%** | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** |  |  |  |  |  |
| **Activities** |  |  |
| **Activities Evaluation** | Homework/Tasks | 10% | B1.B2,B3C1 |  |  |  |  |  |
| Case Study  |  |  |  |  |  |  |  |
| Discussion and Interactions |  |  |  |  |  |  |  |
| Group Activities |  |  |  |  |  |  |  |
| Laboratory Exams |  |  |  |  |  |  |  |
| Presentations |  |  |  |  |  |  |  |
| Quizzes | 10% | C2,C3A1 |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |
| **Total** | 100% | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** |  |  |  |  |  |

 **Components**  |
| **Book** | * Handbook of Nonprescription Drugs; American Pharmaceutical Association / The National Professional Society of Pharmacists, 1990.
* *Comprehensive Pharmacy Review*; L. Shargel, A.H. Mutnick, P.F. Souney and L. Swanson. Lippincott Williams & Wilkins, 2001.
* *Non-Prescription Drugs*: L. Alain and W. Po, Blackwell Scientific Publications, 1982.
 |
| **References** |  |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |

**Subject Coordinator:**

**Head of Curriculum Committee:**

**Department Head:**

**Faculty Dean:**

**Last update date:**