|  |  |
| --- | --- |
| **Course Title:** | **Drug and poison Information (DPI)** |
| **Course Code:** | **PHCP 559** |
| **Program:** | **Pharmaceutical Sciences** |
| **Department:** | **Clinical Pharmacy** |
| **College:** | **Pharmacy** |
| **Institution:** | **Najran University** |

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# A. Course Identification

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Credit hours:** | | | | **2 Hours (1+1)** | | | | | | | | | | | | |
| **2. Course type** | | | | | | | | | | | | | | | | |
| **a.** | University | |  | | College | | | **√** | Department | | | |  | Others |  |  |
| **b.** | | Required | | | | **√** | Elective | | |  |  | | | | | |
| **3. Level/year at which this course is offered:** | | | | | | | | | | | | **9th / 5th year** | | | | |
| **4. Pre-requisites for this course** (if any)**:**  **Pharmacology-3 (PHCL 444)** | | | | | | | | | | | | | | | | |
| **5. Co-requisites for this course** (if any)**:** | | | | | | | | | | | | | | | | |
| **None** | | | | | | | | | | | | | | | | |

## 6. Mode of Instruction (mark all that apply)

| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage** |
| --- | --- | --- | --- |
| **1** | **Traditional classroom** | 45 | 100 |
| **2** | **Blended** |  |  |
| **3** | **E-learning** |  |  |
| **4** | **Correspondence** |  |  |
| **5** | **Other** |  |  |

**7. Actual Learning Hours** (based on academic semester)

|  |  |  |
| --- | --- | --- |
| **No** | **Activity** | **Learning Hours** |
| **Contact Hours** | | |
| **1** | **Lecture** | 15 |
| **2** | **Laboratory/Problem solving sessions** | 30 |
| **3** | **Tutorial** | 0 |
| **4** | **Others** (specify) | 0 |
|  | **Total** | 45 |
| **Other Learning Hours\*** | | |
| **1** | **Study** | 15 |
| **2** | **Assignments** | 10 |
| **3** | **Library** | 0 |
| **4** | **Projects/Research Essays/Theses** | 0 |
| **5** | **Others** (specify) Internet videos | 0 |
|  | **Total** | 70 |

**\*** The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

# B. Course Objectives and Learning Outcomes

|  |
| --- |
| 1. Course Description This course outlines the fundamental aspects of providing drug and poison information using variety of literature resources. It will familiarize students with the services of the drug and poison information Centre which offered by the qualified pharmacist to the community.  To give the concepts of pharmacovigilance, pharmacoeconomics, adverse drug reactions and uses of vitamins. |
|  |
| 2. Course Main Objective |
| The Student will be able to:   * Collect the updated information regarding the drugs by using different resources. * To provide the information in emergency case to manage the different types of poisoning. * To provide the information related to Pharmacoeconomics and pharmacovigilance. |

## 3. Course Learning Outcomes

| **CLOs** | | **Aligned****PLOs** |
| --- | --- | --- |
| 1 | **Knowledge:** |  |
| 1.1 | Describe the fundamentals facts for the collection and evaluation of different drug and poison related information.  Describe the collection of drug related information from through different authentic resources. | K4 |
| **2** | **Skills :** |  |
| 2.1 | Evaluate the possible therapeutic application, interaction and other para meters of different drugs and pharmaceutical compounds | S1 |
| 2.2 | Demonstrate the strategies for solving the problem related to the drug and poison. | S2 |
| 2.3 | Demonstrate the skill for the selection of best therapy with the help of different authentic resources available | S3 |
| **3** | **Competence:** |  |
| 3.1 | Use of personal values and ethical principles in providing the authentic information related to disease and poison management. | C1 |
| 3.2 | Use of personal values and ethical principle in the field of work | C2 |

# C. Course Content

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics** | **Contact Hours** |
| 1 | Introduction of drug information center | 2 |
| 2 | Introduction of poison information center | 1 |
| 3 | Resources of information | 3 |
| 4 | Evaluation of resources | 2 |
| 5 | Pharmacoeconomics | 3 |
| 6 | Pharmacovigilance | 2 |
| 7 | Vitamins and minerals | 2 |
| **Total** | | 15 |
|  | **Practical sessions**  **List of the topics covered in this course**    1. introduction of the collection of data or how to solve the drug and poison related problem.  2. solve the different type of problem related to drug identification, dose, side effect, adverse effect, toxicity, special precaution, price,  3. solve the different problem associated with the poison control, 1st aid and of different household, commonly used chemicals nad drug toxicity | 30 |

# D. Teaching and Assessment

## 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| **Code** | **Course Learning Outcomes** | **Teaching Strategies** | **Assessment Methods** |
| --- | --- | --- | --- |
| **1.0** | **Knowledge** | | |
| 1.1 | Describe the fundamentals facts for the collection and evaluation of different drug and poison related information.  Describe the collection of drug related information from through different authentic resources. | Lectures | 1. Written exam  2. Assignments |
| **2.0** | **Skills** | | |
| 2.1 | Evaluate the possible therapeutic application, interaction and other para meters of different drugs and pharmaceutical compounds | Lectures | Written exam |
| 2.2 | Demonstrate the strategies for solving the problem related to the drug and poison. | Lectures  Problem solving | 1. Written exam  2.Assignments/ presentation |
| 2.3 | Demonstrate the skill for the selection of best therapy with the help of different authentic resources available | Assignments  / presentation | 1.Assignments/ presentation |
| **3.0** | **Competence** | | |
| 3.1 | Use of personal values and ethical principles in providing the authentic information related to disease and poison management. | Lectures | 1. Written exam  2. Problem solving exam |
| 3.2 | Use of personal values and ethical principle in the field of work | Assignments  / presentation | Assignments / presentation/ Practical exam |

## 2. Assessment Tasks for Students

| **#** | **Assessment task\*** | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | Midterm exam **1** | 6 | 15% |
| **2** | Individual assignments | 12 | 5% |
| **3** | Lab. practical quiz | 9 | 5% |
| **4** | Midterm exam **2** | 10 | 15% |
| **5** | Observation card in lab | 2-12 | 5% |
| **6** | Final practical Exam | 15 | 15% |
| **7** | Final exam | 17 | 40% |
| **8** | Total |  | 100% |

**\*Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

# E. Student Academic Counseling and Support

|  |
| --- |
| **Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :** |
| * **Office hours (5 hours per week + appointments)** * **Help session (problem solving): as required per week** |

# F. Learning Resources and Facilities

## 1.Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | * 1 DiPiro, J. T. (Ed.). (2002). *Encyclopedia of Clinical Pharmacy (Print)*. Informa Health Care. * Series, Micromedex Healthcare. "Internet database." *Thomson Reuters Healthcare Web site. http://www. micromedex. com/products/hcs/. Accessed December* 2 (2010). * LEXI (softwares) |
| **Essential References Materials** | * Micromedix (data based software), british national formulary (current edition) |
| **Electronic Materials** | <http://lib.nu.edu.sa/DigitalLibbrary.aspx>  [www.rxlist.com](http://www.rxlist.com)  [www.drugindex.com](http://www.drugindex.com) |
| **Other Learning Materials** | Micromedex |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**  (Classrooms, laboratories, demonstration rooms/labs, etc.) | **A Lecture containing at least 25 seats** |
| **Technology Resources**  (AV, data show, Smart Board, software, etc.) | * **Computer lab** * **Internet access** * **Sound system** |
| **Other Resources**  (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Drug index |

# G. Course Quality Evaluation

| **Evaluation**  **Areas/Issues** | **Evaluators** | **Evaluation Methods** |
| --- | --- | --- |
| Effectiveness of teaching strategies | Head of departments  and students | Indirect  Questionnaires (indirect) |
| Effectiveness of student assessment | Faculty members  and students | Indirect  Questionnaires (indirect) |
| Achievement of CLOs | Student  peer reviewer | Direct  Indirect |
| Quality of learning resources | Students | Questionnaires (Indirect) |

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

**Assessment Methods** (Direct, Indirect)

# H. Specification Approval Data

|  |  |
| --- | --- |
| **Council / Committee** | Clinical Pharmacy Department Council |
| **Reference No.** | 41-40-9-2 |
| **Date** | 1441-06-10 |