|  |  |
| --- | --- |
| **Course Title:** | **Over the counter drugs (OTC)** |
| **Course Code:** | **PHCU 538** |
| **Program:** | **Bachelor of Pharmaceutical Sciences (B.Pharm.Sc.)** |
| **Department:** | **Pharmaceutics** |
| **College:** | **Pharmacy** |
| **Institution:** | **Najran University** |

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# A. Course Identification

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Credit hours:** 3 (2+1) | | | | | |  | | | | | | | | | | |
| **2. Course type** | | | | | | | | | | | | | | | | |
| **a.** | University | |  | College | | | | **√** | Department | | | |  | Others |  |  |
| **b.** | | Required | | | **√** | | Elective | | |  |  | | | | | |
| **3. Level/year at which this course is offered:** | | | | | | | | | | | | Level 10 | | | | |
| **4. Pre-requisites for this course** (if any)**:** PHCU534 | | | | | | | | | | | | | | | | |
| **5. Co-requisites for this course** (if any)**:** NA | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |

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

| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage** |
| --- | --- | --- | --- |
| **1** | **Traditional classroom** | 60 | 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** | 30 |
| **2** | **Laboratory/Studio** | 30 |
| **3** | **Tutorial** | - |
| **4** | **Others** (specify) | - |
|  | **Total** | 60 |
| **Other Learning Hours\*** | | |
| **1** | **Study** | 40 |
| **2** | **Assignments (poster presentation)** | 20 |
| **3** | **Library** |  |
| **4** | **Projects/Research Essays/Theses** | - |
| **5** | **Others** (specify): online reading | - |
|  | **Total** | 60 |

**\*** 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 deals with teaching pharmacy students over the counter drugs or the drugs which can be given to the patient without physician prescription. Students during this course become familiar with the disease conditions that can be manipulated by the pharmacists without prescription e.g. Hyperacidity, constipation, diarrhea, topical fungal infections, common cold, anti-cough products etc. |
|  |
| 2. Course Main Objective |
| Describe the principle of OTC drugs, Mention ideal treatments for different and common diseases, and Describe the ideal treatments combinations and drug- drug interactions. Identify pharmacological properties of drugs. Demonstrate the possible precautions for each OTC drug. List the different side effects of OTC drugs. |

## 3. Course Learning Outcomes

| **CLOs** | | **Aligned****PLOs** |
| --- | --- | --- |
| 1 | **Knowledge:** |  |
| 1.1 | State the principles, concepts of OTC drugs | K3 |
| 1.2 | Mention the drug uses, side effects and precautions for OTC drug | K3 |
|  |  |  |
| **2** | **Skills :** |  |
| 2.1 | Plan strategies to dispense the appropriate OTC for more efficacy and less side effect | S2 |
| 2.2 | Communicate clearly by verbal and written the OTC drug groups for specific medical disorder | S4 |
| **3** | **Competence:** |  |
| 3.1 | Work independentlyand professionally**.** | C1 |
|  |  |  |

# C. Course Content

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics [Theory]** | **Contact Hours** |
| 1 | Overview and aim of studding OTC preparations | 1 |
| 2 | Identification of different diseases required OTC drugs | 2 |
| 3 | GIT Symptoms, Abdominal pain, Diagnosis | 2 |
| 4 | Gastritis due to hyperacidity and treatments | 2 |
| 5 | Abdominal spasms and antispasmodic. | 2 |
| 6 | Vomiting , Motion thickness and their treatments | 1 |
| 7 | Diarrhoea and Dysentery , treatments | 2 |
| 8 | Constipation, prevention of constipation and treatments | 2 |
| 9 | Fever , Headache ,Migraine and Insomnia | 2 |
| 10 | Fatigue and weakness | 2 |
| 11 | Back pain and treatments | 2 |
| 12 | Cough and common colds treatment and rhinorrhea. | 4 |
| 13 | Foot problems | 2 |
| 14 | Oral problems and eye problems | 2 |
| 15 | Dental pain and ear problems | 1 |
| **Total** | | 30 |

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics [Practical]** | **Contact Hours** |
| 1 | Introduction to OTC products | 2 |
| 2 | Gastritis | 2 |
| 3 | Antispasmodic | 2 |
| 4 | Vomiting | 2 |
| 5 | Diarrhea | 2 |
| 6 | Constipation | 2 |
| 7 | Fever | 2 |
| 8 | Headache | 2 |
| 9 | Insomnia | 2 |
| 10 | Fatigue | 2 |
| 11 | Back Pain | 2 |
| 12 | Cough | 2 |
| 13 | Foot problem+ Oral Problem | 2 |
| 14 | Dental Pain+ Rhinorrhea | 2 |
| 15 | Eye Problem + Ear Problem | 2 |
| **Total** | | 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 | Define OTC drugs and their efficacy, side effect and precaution for the treatment of specific medical disorder | Lectures | Written exam |
| **2.0** | **Skills** | | |
| 2.1 | Plan strategies to dispense the appropriate OTC for more efficacy and less side effect | Lectures and practical | Practical exam  Poster presentation |
| 2.2 | Communicate clearly by verbal and written the OTC drug groups for specific medical disorder | Lectures and practical | Practical exam  Poster presentation |
| **3.0** | **Competence** | | |
| 3.1 | Work independentlyand professionally**.** | Practical sessions  Group discussions | Practical exam  Observation cards |

## 2. Assessment Tasks for Students

| **#** | **Assessment task\*** | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | Periodic exam 1 (theory) | 6-7 | 15% |
| **2** | Periodic exam 2 (theory) | 10 | 15% |
| **3** | Quiz (practical) | 13 | 5% |
| **4** | Poster presnetation | 13 | 5% |
| **5** | Final Practical exam | 15 | 15% |
| **6** | Final Written exam | 17-16 | 40% |

**\*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 hour: (04 hour per week + appointments)  Help session : (Problem solving): As required per week |

# F. Learning Resources and Facilities

## 1. Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | British Pharmaceutical Codex: 56 |
| **Essential References Materials** | Non-prescription Medicines: Alan Nathan, Fourth Edition 2010; Pharmaceutical Press. |
| **Electronic Materials** | https://sdl.edu.sa/SDLPortal/en/Publishers.aspx  http://dlaf.nu.edu.sa/en/e-libraries  http://www.nu.edu.sa/en/web/deanship-of-libraries-affairs/85  http://lib.nu.edu.sa/DigitalLibbrary.aspx |
| **Other Learning Materials** |  |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**  (Classrooms, laboratories, demonstration rooms/labs, etc.) | Classrooms equipped with data show and chairs |
| **Technology Resources**  (AV, data show, Smart Board, software, etc.) | Projectors, computers |
| **Other Resources**  (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) |  |

# G. Course Quality Evaluation

| **Evaluation**  **Areas/Issues** | **Evaluators** | **Evaluation Methods** |
| --- | --- | --- |
| Effectiveness of teaching and assessment | Students | Direct (online questionnaire) |
| Extent of achievement of course learning outcomes | Department committee | Indirect (comparison to the previous achievement in the course) |

**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** | Pharmaceutical Department Committee |
| **Reference No.** | Department meeting No.1 |
| **Date** | 10/09/2019 |