|  |  |
| --- | --- |
| **Course Title:** | **Alternative and herbal medicine** |
| **Course Code:** | **PHGN 525** |
| **Program:** | **Pharmaceutical sciences** |
| **Department:** | **Pharmacognosy** |
| **College:** | **Pharmacy** |
| **Institution:** | **Najran University** |

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# A. Course Identification

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Credit hours:** | | | | **2(1+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)**:**  PHGN 524 | | | | | | | | | | | | | | | | |
| **5. Co-requisites for this course** (if any)**:** | | | | | | | | | | | | | | | | |
| ------------- | | | | | | | | | | | | | | | | |

## 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** | 15 |
| **2** | **Laboratory/Studio** | 30 |
| **3** | **Tutorial** |  |
| **4** | **Others** (specify) |  |
|  | **Total** | 45 |
| **Other Learning Hours\*** | | |
| **1** | **Study** | 40 |
| **2** | **Assignments** | 10 |
| **3** | **Library** | 0 |
| **4** | **Projects/Research Essays/Theses** | 0 |
| **5** | **Others** (specify) | 0 |
|  | **Total** | 95 |

**\*** 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

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# B. Course Objectives and Learning Outcomes

|  |
| --- |
| Course Description Alternative and herbal medicine (PHG 525) course Explore the difference between the Alternative and conventional therapy beside a brief history of the traditional and herbal medicine, in addition, studying the mechanism and the role of herbal medicine in the treatment and prophylaxis from diseases and disorders affected the human body systems. |
|  |
| Course Main Objectives  1. Acquire the knowledge about the complementary and alternative medicine approaches and history. 2. Understand the role of herbal medicine in treatment and prophylaxis from dieases and disorders affected body systems and organs. |
|  |

## 

## 3. Course Learning Outcomes

| **CLOs** | | **Aligned****PLOs** |
| --- | --- | --- |
| 1 | **Knowledge:** |  |
| 1.1 | - Identify the body system disorders and their herbal treatment. | K2 |
| 1.2 | - To know the different alternative medicine approaches and history | K2 |
| **2** | **Skills:** |  |
| 2.1 | - Differentiate between different herbal drugs that affect body systems disorders. | S1 |
| 2.2 | - Determine the characteristic elements of herbal drugs used for treatment of body disorders. | S1 |
| **3** | **Competence:** |  |
| 3.1 | - Suggest the proper use of herbal drugs in treatment of human disorders and diseases. | C1 |

# 

# C. Course Content

|  |  |  |
| --- | --- | --- |
| 1. Topics to be Covered : | | |
| List of Topics | No. of  Weeks | Contact Hours |
| I. Musculoskeletal Disorders | 3 | 3 |
| II.-Herbal medicine for cardiovascular diseases.   * Congestive heart failure * Hypertension * Arteriosclerosis * Arrhythmia * Angina pectoris | 3 | 3 |
| III- Endocrine diseases and herbal medicine :   * Diabetes | 1 | 1 |
| IV- herbal medicine for digestive system diseases:   1. G.I.T. disorders  * Diarrhea * Constipation * Flatulance * Dyspepia * Gastric and peptic ulcers.   2- Liver diseases. | 4 | 4 |
| V- herbal medicine for respiratory system diseases: | 2 | 2 |
| VI- herbal medicine for urinary system diseases: | 2 | 2 |
| **Practicals** | | |
| Identification of unknown drugs in mixture  1. Liquorice + ginger  2. Digitalis + squill  3. Ammivisnaga + mentha  4. Anise + coriander  5. Mentha + coriander  6. Foenugreek + Anise  7. Hibuscus + squill  8. Foenugreek + ginger  9. Liquorice + ginger  10.Senna + rhubarb  11. Clove + menthe  12. Foenugreek + senna  13. Datura + ginger  14. Datura + hibiscus  15. Morphology of Crude Drugs | 15 | 15 |

# 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 | - Identify the body system disorders and their herbal treatment. | Lectures | Written Exams and assignments |
| 1.2 | - To know the different alternative medicine approaches and history | Lectures | Written Exams and assignments |
| **2.0** | **Skills** | | |
| 2.1 | - Differentiate between different herbal drugs that affect body systems disorders. | Lectures | Written Exams |
| 2.2 | - Determine the characteristic elements of herbal drugs used for treatment of body disorders. | Practical labs. | Practical exams |
| **3.0** | **Competence** | | |
| 3.1 | - Suggest the proper use of herbal drugs in treatment of human disorders and diseases. | Lecture and practical Labs | Exams and assignments |

## 

## 2. Assessment Tasks for Students

| **#** | **Assessment task\*** | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | 1st Mid-term exams | 6-7 | 15% |
| **3** | Assignment | 12 | 5% |
| **4** | Observation card | 132- | 5% |
| **6** | 2nd Mid-term exam | 10 | 15% |
| **7** | Practical quiz | 8 | 5% |
| **8** | Final practical exam | 15 | 15 |
| **9** | Final theoretical exam | 17 | 40% |
| **10** | Total |  | 100% |

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

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# E. Student Academic Counseling and Support

|  |
| --- |
| **Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**   * Office hours (**2** hours per week + appointments). * Office hours must be announced on the office door and blackboard * Student counselling: as required per week. |
|  |

# F. Learning Resources and Facilities

## 1.Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | i- Trease and Evans, Pharmacognosy, T.E, Walis, Pharmacognosy  Ashtosh Kar, Pharmcognosy and Pharmacobiotechnology,  ii- The Hand Books of Natural Flavonoids; Harborne, J., B. and Baxter, John Wiley &Sons Ltd.(1999).  iii- Natural Products Isolation; Canell, R. J. P, Humana Press.  (1998). |
| **Essential References Materials** | 1-Trease and Evans, pharmacognosy, 15t" Ed., Saunders  Company, Nottingham,U.K., Willium Charles Evans.(2003).  2- Handout from power point presentation |
| **Electronic Materials** | [www.dlaf.nu.edu.sa](http://www.dlaf.nu.edu.sa) |
| **Other Learning Materials** | MS office Word and PowerPoint |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**  (Classrooms, laboratories, demonstration rooms/labs, etc.) | * A Suitable lecture room equipped with data show and internet and 25 seats. * Suitable lab equipments with safety tools |
| **Technology Resources**  (AV, data show, Smart Board, software, etc.) | * Computer * Internet access * Effective e-learning system and virtual classes |
| **Other Resources**  (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | * Microscopes * Glassware’s * Slides and covers |

# G. Course Quality Evaluation

| **Evaluation**  **Areas/Issues** | **Evaluators** | **Evaluation Methods** |
| --- | --- | --- |
| * Effectiveness of teaching and assessment | * Head of dept. and students | Direct (Group discussions with the college teaching lecturers) |
| * Effectiveness of student assessment | * Faculty members and students | * Indirect (questionnaire) |
| * Extent of achievement of course learning outcomes | * Student * Peer review | * Direct * Indirect |
| * Quality of learning resources | * Students | * Indirect (questionnaire) |

**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** | Pharmacognosy dep. council |
| **Reference No.** | Council No. 1 |
| **Date** | 25/08/2019 |