**KING SAUD UNIVERSITY**

**COLLEGE OF APPLIED BIOMEDICAL SCIENCES**

**DEPRATMENT OF REHABILITATION SCIENCES**

**PHYSICAL THERAPY**

**COURSE SYLLABUS**

**Spring semester 1435/36 (2014/2015G).**

**Course Number:** RHS 421

**Course Title:** Advanced physical therapy procedure.

**Credit Hours:** 1 cr. h. Theoretical and 1 cr. h. Clinical

**Course Instructor:** ***Dr. Rehab Farrag Gwada***

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**Course Description:**

In this course normal structural and functional basis of the respiratory system are presented and discussed. Terminology of the physical therapy for chest diseases is also included. This is followed by discussions and practical demonstration of general and specific evaluation procedures and their rationales for use with patients suffering from particular problem will be followed respiratory problems. The student will be trained on how to select the appropriate physical therapy procedures for different chest problems and how to plan the treatment programs. Implementation of physical therapy programs using therapeutic skills for each part.

Course Objectives:

**Upon completion of this course students will be able to:**

1- Recognize accurately physiological basis as the mechanics of breathing, ventilation, and perfusion.

2- Differentiate effectively between the pathogenesis of restrictive lung diseases and obstructive lung diseases.

3- Interpret the physical therapy evaluative procedure (s) to the chest adult patient with 90% accuracy..

4- Design therapeutic plan for adult chest diseased patient characterized with prioritized patient’s problem (s), identified short term and long term goals, rationale selection of the physical therapy modality (s), and pre-designed outcome measure (s).

5- Practice as part of the health services teamwork within the standardized professional behavior.

6- Master implementation of physical therapy modalities as the evaluation procedures (chest expansion, breathing sounds, Spirometery) and the therapeutic modalities (for chest adult chest diseased patient as modalities to increase lung volume, clear airway passages and decrease work of breathing) with 90% accuracy.

COURSE OUTLINE.

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| 1. Topics to be Covered | | |
| List of Topics | No. of  Weeks | Contact Hours |
| Establishment of Class Ground Rules.  Assignment of head student.  Collection of students' contact information.  Overview of the course goals and specification:  Why it is important to study geriatric course?  What are your expected outcomes from this course?   * Explanation of the students' projects | 1st weeks | 3 |
| Basics of physiological basis: Mechanics of breathing, ventilation, perfusion | 2nd,3rd  weeks | 1 |
| * Signs and symptoms of pulmonary problems | 4rd  week | 1 |
| * Chronic obstructive lung disease | 5th week |  |
| * ***1st Midterm Exam*** | 6th week |  |
| * Asthma | 7th  weeks | 1 |
| Restrictive lung disease | 8th  week | 2 |
| * ***Spring vocation*** | 9th week |  |
| * **Outcome measurement: spirometry , 6 minute walking test** * **Students' assignments presentations** | 10th  weeks | 1 |
| * Chest **physicaltherapy modalities** | 11th week |  |
| * ***2nd Midterm Exam*** | 12th week | 1 |
| * Cont.   Chest **physicaltherapy modalities.** | 13th, |  |
| **Outcome measurement: physical activity & ex. Capacity, health status & QoL , Dyspnea**  **Students assignment presentation** | 14,15th  week | 1 |
| * Revision& General Appraisal of the course materials | 16th  week | 1 |
| * ***Final Examination.*** | Final examination period | 2 |

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| Schedule of Assessment Tasks for Students During the Semester | | | |
| Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.) | Week Due | Proportion of Total Assessment |
| 1st Mid Term Exam 15% | 6th | 40% |
| 2nd Mid Term Exam 15% | 12th |
| Clinical Mid-Term exam (10%) | 8th |
| In- course work:  - assignment -10%  - active participation in class 5%  Attendance 1%, professional attitude and behavior 1%, active participation & home work 3%)  - Professional attitude and behavior during the onsite clinical practice. (5%) | continuous | 20% |
| Clinical final exam (10%) | Final examination period | 10% |
| Final theoretical Exam | Final examination period | 30% |

Recommended References.

1. Chest Physical Therapy and Pulmonary Rehabilitation: An Interdisciplinary Approach, Donna L. Frswnfelter , published by year Book Medical Publisher Inc Chicago

2. The Brompton Hospital Guide to Chest physical Therapy, Gaskell D.V. and Webber B.A Published by Blackwell Scientific Publication, London