



## Course Syllabus

<b>Course title and code:</b>	Clinical studies III “Physical Therapy for Cardiovascular Conditions” RHS 431.
<b>Department :</b>	Rehabilitation Health Sciences-
<b>Program in which the course is offered:</b>	Physical Therapy Program
<b>Credit hours:</b>	Theory- 2, Clinical-1
<b>Total contact hours per semester:</b>	60 hours
<b>Level at which this course is offered :</b>	level 8
<b>Course prerequisites:</b>	RHS 421, RHS 442
<b>Time:</b>	Sunday 8-10am & Thursday 10-11:50( Theory)
<b>Location:</b>	Theory -Female campus / Clinical – King Faisal Specialist Hospital
<b>College member responsible for the course</b>	Dr. Rehab Farrag Gwada (for theoretical part) , Mrs. Kholoud alotaibi(for clinical part)
<b>Contact information:</b>	
<b>Office Number:</b>	<b>162</b>
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<b>Office hours:</b>	10-11am Sunday, 8-10am Monday, 9-10amThursday

### Course Description

Cardiovascular course aimed to enable students to evaluate patients with cardiovascular disorders, identify patient’s problems and implement the proper physical therapy modality and/ or technique. Student should also be capable of

measuring the effectiveness of Physical Therapy rehabilitation program and they should practice within the ethical and professional standards of the health institution.

### **Course Objectives**

- 1- Recognize effectively the patho-physiology of adult cardiovascular disorders..
- 2- Select the evaluative measure (s) for the adult cardiovascular patient based on patient's needs.
- 3- Apply differential diagnosis to adult cardiovascular patient with 90% of accuracy.
- 4-Design a therapeutic plan for the adult cardiovascular with prioritized problem (s), justified physical therapy modality (modalities), and rational outcome measure (s) and suitable time frame.
- 5- Practice as part of the health services team work according to the standardized professional behavior, ethics of the institution and culture of the community.
- 6- Master implementation of the physical therapy modalities for adult cardiovascular patient with 90% compliance to the international acceptable standards

### **Teaching strategies**

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual

### **Learning Resources**

#### **Required Text (s)**

- **Essential References**
  - Hillegass Sadowsky: Essentials of cardiopulmonary physical therapy. Pennsylvania, Saunders, Last edition.
  - Louis R. Amundsen: Cardiac rehabilitation. New York, Churchill Livingstone, Last edition
  - Frownfelter D, and Dean E. Principles and practice of cardiopulmonary physical therapy, Last edition.

#### • **Recommended Journals**

- Cardiothoracic Surg.
- Chest.
- Journal of Saudi Heart Association.
- Indian Journal of Physical Therapy and Occupational Therapy.
- American heart association journal.

#### • **Electronic Materials and**

<http://www.journalofthesaudiheart.com/article/PIIS1016731511000054/fulltext>  
[http://www.journalofthesaudiheart.com/article/S1016-7315\(10\)00499-9/fulltext](http://www.journalofthesaudiheart.com/article/S1016-7315(10)00499-9/fulltext)

**Web Sites**

<http://www.indianjournals.com/ijor.aspx?target=ijor:ijpot&volume=4&issue=3&article=016>  
[http://www.idosi.org/mejsr/mejsr6\(6\)/13.pdf](http://www.idosi.org/mejsr/mejsr6(6)/13.pdf)

**Topics to be covered**

List of Topics	Week due	Contact Hours
Overview of the course specification Discussion of the class ground rules Assignment of head student Collection of students contact information – Orientation of clinical practice sessions	1st weeks	4
-Review anatomy and physiology of the heart -Pathogenesis of cardiac symptoms	2nd weeks	2
- Pathogenesis of cardiac symptoms -cont. - Cardiac rehabilitation	3rd week	2
- Ischemic heart disease	4 <sup>th</sup> week	2
- <b>1<sup>st</sup> Midterm exam</b>	5 <sup>th</sup> weeks	
- Cardiac rehabilitation	6 <sup>th</sup> week	
- Congestive heart failure	7 <sup>th</sup> week	2
- vulvar heart disease	8th week	2
- <b>Vocation</b>	9th weeks	2
- Congenital heart disease	10 <sup>th</sup> week	2
<b>2<sup>nd</sup> Midterm exam</b>	11 <sup>th</sup> week	
- Cardiac rehabilitation - Electrocardiograph (ECG)	12 <sup>th</sup> week	4
- Arterial disorders	13th week	2
- <u>Lymphatic disorders</u>	14th	2
- <b>Venous disorders</b>	15th week	2
- Revision	16th	2

## Schedule of Assessment Tasks for Students During the Semester

Assessment task	Week due	Proportion of Final Assessment
Theoretical 1 <sup>st</sup> midterm Exam	5 <sup>th</sup>	10%
Theoretical 2nd midterm Exam	11 <sup>th</sup>	15%
Clinical Mid Term Exam	11 <sup>th</sup>	5%
Course work- -active participation during class time (5%). (Professional attitude and behavior 1%, active participation & homework 4%)  -Professional attitude, behavior and attendance during the onsite clinical practice and students' presentations. (5%)  - Student report (1): Subjective, objective, assessment & Therapeutic plane of care (SOAP) (10%)  -Assignment & presentation 10%	Continuous evaluation   10 <sup>th</sup>	30%
Clinical Final Term Exam	15 <sup>th</sup>	10%
Final theoretical Exam	18 <sup>th</sup>	30%

### Required Assignments:

Week	Assignments	Evaluation	Week due
8 <sup>th</sup>	Exercise stress test & how to use its information in cardiac rehabilitation using updated articles	Written report (7%)	6 <sup>th</sup>
11 <sup>th</sup>	Congenital heart disease & physical therapy using updated articles	Presentation (3%)	10 <sup>th</sup>
13 <sup>th</sup>	ECG using updated articles using updated articles		12 <sup>th</sup>
15 <sup>th</sup>	Venous disorders & the role of physical therapy		15 <sup>th</sup>

### Criteria for evaluation :

Assignments/Independent learning through literature and library use. Students will be grouped and Choose to prepare a report on related cardiovascular conditions (from previous topics explained in the syllabus) and prepare an ORAL PRESENTATION and WRITTEN REPORT (Approximate time for presentation per group will not be more than twenty minutes, written report will not exceed ten pages.)

**Written report format: 12pts times new roman format, double space, excluding the cover and references pages.**

- There will be a 10% reduction per day for all late assignments. Any assignment more than 5 days late will receive no credit. Student and course names& number are required on all assignments.

**Course rules :**

- **Class Leader:**

Name:

The Class Leader will serve as the direct liaison between the course instructors and the students.

- Ensure that all students' duties are assigned and completed as required.
- Notify course instructor immediately when any student fails to complete a required component of the class.
- Serve as role model for the students and members in both manner and dress.

- **Duties of the Class leader:**

- Ensure that all students are aware and informed of their duties
- Ensure that both lab and classroom environment are always left in a neat and orderly fashion.

**Students are expected to attend each session and be on time. Five percent of the overall course grade depends on Class Participation. Therefore, regular attendance is critical for doing well in this course. If you are absent in**

**More comments for instructor :**

**the class, make arrangements to obtain the notes from another students. Additionally, each student will be responsible for signing her name ONLY. If a student signs in for another, neither student will receive credit for that day**

**Any disruptive activity (e.g. use of cell phones, side conversations) in the classroom is prohibited. If the instructor required disruptive students to leave the classroom, the student remains responsible for all the information and will be marked absent for the class session. The dean will impose sanctions for unprofessional behavior.**

**There will be **no bounce** at the end of course.**