course contract

Name of the course: Medical physiology

Academic year: First year - second term (2013 - 2014)

Course code: PSL 107 - PSL 108

Contact hours (credit hours): 5 lectures / week ............... 1 practical / week

Course aims:

i. To enable students to understand the functions of different body systems and organs.

ii. To enable students to understand the functions of heart and lungs.

iii. Describe alteration in structure and functions of major body systems in the abnormal conditions.

ILOS:

a1. Describe normal structure and function of cardiovascular and respiratory system and how they interrelate. (ILO-a2)

a2. Describe heart and lungs perform their functions. (ILO-a3)

a3. Describe properties of cardiac muscle. (ILO-a3)

a4. Define cardiac output and explain its regulation. (ILO-a3)

a5. Explain dynamics of blood. (ILO-a2 - a3)

a6. Analyze the mechanics of ventilation. (ILO-a2)

a7. Explain gas exchange across the pulmonary membrane. (ILO-a2 -a4)

a8. Define hypoxia and cyanosis - recognize their types and causes. (ILO-a2 -a4)

b1. Interpret and explain disturbed body functions in different diseases. (ILO-b1)

b2. Think and expect the outcome of disturbed mechanisms of functions. (ILO-b1)

b3. Analyze the given information. (ILO-b2)

b4. Solve problem through case study. (ILO-b2)

c1. Measure the vital capacity, forced vital capacity. (ILO-b11)
c2. Feel the radial pulse (ILO-b11)
c3. Measure arterial blood pressure (ILO-b11)
c4. Use the ECG electrodes and draw normal ECG by electrocardiogram (ILO-b11)
c5. Hear the first and second heart sounds (ILO-b11)
c6. Identify the pulmonary and aortic area on the chest wall (ILO-b11)
d1. Integrate information by all means including electronically (ILO-d1)
d2. Organize information clearly in written, electronic and oral forums (ILO-d2)
d3. Be involved in groups to introduce project (ILO-d1)

**Student assessment:**

a. **Methods:**
   iv. Class activity
   v. Practical exam
   vi. Oral exam
   vii. Quiz and final exam

b. **Assessment schedule:**
   viii. Quiz 1 week 4
   ix. Midterm week 7
   x. Quiz 2 week 10
   xi. Final written exam week 16
   xii. Final practical exam week 14

c. **Weight of assessment:**
   xiii. Class activity 12%
   xiv. Midterm 20%
   xv. Practical exam 16%
   xvi. Final written exam 40%
   xvii. Oral exam 12%
   xviii. Total 100%