

**Practical Course Specification**

-**Title of the programs:** Clinical Laboratory Sciences

-**Title of the course:** Pathophysiology

-**Code number of the course**: CLS-421

-**Credit hours:** 1 + 2

-**Contact hours**: 3 hours

-**Academic year**: 1433-2012

-**Level**: 7

**Professional informations**

**(Course specifications)**

* **Overall aims of the course:**
* To provide the students and graduates with fundamental Pathophysiologic principle and clinical knowledge.
* Recognize, interpret and explain pathologic and for the life-long learning.
* Students and graduates will develop an experience in laboratory management and system to provide pathologic services that are of optimal value.
* Students and graduates will enhance their understanding of pathologic Principle underlying medical diseases and specific abnormalities causing common medical disorders.
* Demonstrate the ability to know basic anatomical structures utilizing a body system approach, including pathophysiology, and disease processes affecting the human body.
* Learn the basic anatomical structure through a body system approach, including the disease processes that affect the body.
* **Course contents (Time schedule)**

|  |  |  |
| --- | --- | --- |
| Week | Practical lesson | No. of hours |
| 1 | Cell adaptation and cell injuries | 2 |
| 2 | Neoplasm + case study | 2 |
| 3 | Anemia + case study | 2 |
| 4 | Inflammation & immune system | 2 |
| 5 | Med Term 1 | 1 |
| 6 | CVS + case study | 2 |
| 7 | Respiratory System + case study | 2 |
|  | Mid semester break |  |
| 8 | Renal System+ case study | 2 |
| 9 | Med Term 2 | 1 |
| 10 | Digestive System+ case study | 2 |
| 11 | Endocrine +case study | 2 |
| 12 | Metabolism + case study | 2 |
| 13 | Final practical examination | 1 |
| 14 | Submission of final practical result |  |

* **Teaching Methods:**

1. Data show and wide screen for power point presentation.

* **Assessement methods:**

20% of the course which is equal to 20 marks divided into

MT1……………………….…………………………………………….5marks

MT2…………………………………………………………………….5marks

Final………………………………………….…………………………10marks

* **References:**
* Library.med.utah.edu (website).
* Pathophysiology of Disease by Stephen J. McPhee, Vishwanath R. Lingappa and William F. Ganong.