

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

|                            |                                    |
|----------------------------|------------------------------------|
| Course name                | Chest & Cardiac Diseases & Surgery |
| Course number              | AMSP4226                           |
| Faculty                    |                                    |
| Department                 |                                    |
| Course type                | Major Needs                        |
| Course level               | 4                                  |
| Credit hours (theoretical) | 2                                  |
| Credit hours (practical)   | 0                                  |
| Course Prerequisites       |                                    |

#### Course Objectives

|   |
|---|
| 1 - The course describes chest diseases and surgery; causes, diagnosis and treatment    |
| 2 - The course describes heart diseases and surgery; causes, diagnosis and treatment    |
| 3 - The course describes intensive care management of different cardiothoracic diseases |

#### Intended Learning Outcomes

|                             |  |
|-----------------------------|--|
| Knowledge and Understanding | <ul style="list-style-type: none"> <li>* - Understand the causes of different heart and chest diseases</li> <li>* - - Understand the methods of diagnosis and treatment of different heart and chest diseases</li> <li>* - - Understand the medical and surgical treatment of different heart and chest diseases</li> <li>* - - Understand the intensive care management of different heart and chest diseases</li> <li>* - Gain skills in reading chest x-rays</li> <li>* - Gain skills in reading ECG</li> <li>* (Gain skills in cardiopulmonary resuscitation (CPR</li> </ul> |
|-----------------------------|--|

## Course Contents

- 1 - Diseases of the pleura
- 2 - Interstitial lung diseases and tumors of the lung
- 3 - Pulmonary thromboembolism and respiratory failure
- 4 - Chest trauma and postoperative chest complications
- 5 - Chest symptomatology
- 6 - Chest x-ray reading
- 7 - ECG reading and pericardial diseases
- 8 - Heart failure
- 9 - Rheumatic fever
- 10 - Infective endocarditis and valvular heart diseases
- 11 - Coronary artery diseases
- 12 - Cardiac arrhythmias
- 13 - Systemic hypertension
- 14 - Cardiac arrest and CPR

## Teaching and Learning Methods

- 1 - Powerpoint slide presentations
- 2 - Discussion

## Teaching and Learning Methods for the Disabled Students

- 1 - Powerpoint slide presentations

## Students Assessment

| <u>Assessment Method</u>   | <u>TIME</u>   | <u>MARKS</u>                             |
|--|---|--|
| Written examination including MCQ, short notes , cross matching, definitions | 1 hour for each of 2 midterms and 2 hours for final examination | midterm exam each 25% and final exam 50% |
| Two midterm exam and one final exam  |   |  |

## Books and References

|             |   |
|-------------|---|
| Course note | Lecture notes on heart and chest diseases, surgery and ICU (2017) prepared by Dr. Walid Daoud |
|-------------|---|

## Knowledge and Skills Matrix

| Main Course Contents                               | Study Week | Knowledge and Understanding  | Intellectual Skills  | Professional Skills | General Skill |
|--|------------|--|--|---------------------|---------------|
| Chest symptomatology                               | 1          | To understand patient symptoms   | To be able to analyse patient complains  |                     |               |
| Chest x-ray reading                                | 2          | To understand how to read chest x-ray  | To be able to diagnose chest and heart diseases  |                     |               |
| Diseases of the pleura                             | 3          | To understand different pleural diseases as pleurisy, pleural effusion, pneumothorax and pleural tumors  | To understand the causes, clinical picture, complications investigations and treatment |                     |               |
| Interstitial lung diseases and tumors of the lung  | 6          | To understand the types of chest trauma and their management and their complications   |  |                     |               |
| Pulmonary thromboembolism and respiratory failure  | 5          | To understand causes and clinical picture, investigations and treatment of pulmonary thromboembolism as well as respiratory failure its types and management |  |                     |               |
| Chest trauma and postoperative chest complications | 6          | To understand types and management of trauma and postoperative chest complications   |  |                     |               |
| ECG reading and pericardial diseases               | 7          | To understand the technique of ECG   | To be able to read and diagnose cardiac diseases                                       |                     |               |
| Heart failure                                      | 8          | To understand the causes, clinical picture, investigations of heart failure  |  |                     |               |

|  |    |   |                                  |  |  |
|--|----|---|----------------------------------|--|--|
| Rheumatic fever                                    | 9  | To understand causes, clinical picture and management of rheumatic fever  |                                  |  |  |
| Infective endocarditis and valvular heart diseases | 10 | To understand causes, clinical picture and management of infective endocarditis and valvular heart diseases                             |                                  |  |  |
| Coronary artery diseases                           | 11 | To understand angina pectoris and myocardial infarction as regard causes, clinical picture, complications, investigations and treatment | Apply physiotherapy              |  |  |
| Cardiac arrhythmias                                | 12 | To understand different types of arrhythmias, diagnosis and management  |                                  |  |  |
| Systemic hypertension                              | 13 | To understand causes, clinical picture, complications and treatment of systemic hypertension  |                                  |  |  |
| Cardiac arrest and CPR                             | 14 | To understand causes and management of cardiac arrest   | To gain skills in methods of CPR |  |  |