1. **Basic Information:**

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| --- | --- |
| **Course title:** | Chest disease(CMMD03) |
| **Corse code:** | CMMD03 |
| **Department:** | CHEST Department |
| **Program on which the course is given:**  | Royal collage of chest physicians |
| **Faculty:** | medicine |
| **University:** | zagazig |
| **Academic level:** | **Level: postgraduate** | **Semester:**  | **Year:2020 /2021** |
| **Approval date:**  |  |

1. **Course Aims:**

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| --- | --- |
|  | Successful completion of the training course  |
|  | Gives the trainees the opportunity to produce detailed dissertation |
|  | Provide atmosphere that enhances research |

1. **Intended Learning Outcomes (ILOs):**
2. **Knowledge and understanding:**

At the end of this course, student should be able to:

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| --- | --- | --- |
|  | **KU-1** | Illustrate anatomical compartements of respiratory system including upper , lower airways , lung lobes and segments , thoracic cage and vascular supply of the lung and diaphragm. |
| KU 2 | Define respiratory muscles either inspiratory and expiratory and innervation of ventilator muscles. |
|  | KU3 | Explain the protective mechanisms of the respiratory system together with the methods of control of ventilation either voluntary , involuntary and humoral control of respiration. |
| KU4 | Identify the functions of the respiratory system. |
|  | KU5 | Discuss epidemiology ,incidence of bronchial asthma , COPD , pulmonary tuberculosis and lung cancer |
| KU6 | Identify how lung functions are altered in different diseases. |

1. **Intellectual Skills:**

At the end of this course, student should be able to:

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|  | **IS1** | -Complete a comprehensive pulmonary consultation including identification ,chief complaint , history of present illness, past history ,review of systems ,personal and social history and complete physical examination with particular focus on pulmonary examination |
| **IS 2** | -Interpret the most important physiological laboratory results (blood, respiratory) to distinguish a physiological from a pathological condition. |
|  | **IS 3** | – Undertake timely and appropriate investigations (radiologic ,physiologic ,laboratory ,sleep related ,endoscopic and other relevant invasive diagnostics). |
| **IS 4** | - Analyze symptoms **&** signs and construct a differential diagnosis for common presenting complaints. And also integrate clinical findings with available investigations to form a differential diagnosis . |
|  | **IS 5** | **-Correlate** the pathologic features of the disease with its presentation, laboratory investigations and complications. |
| **IS 6** | **-Interpret**  results of chest X-rays and CTs ,pulmonary function tests ,arterial blood gases,sleep studies and results of pleural ,bronchoscopic and transthoracic specimens . |

1. **Professional and Practical Skills:**

At the end of this course, student should be able to:

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|  | PS1 | Provide acute respiratory and hemodynamic care (oxygen therapy ,emergency airway management ,intiation/management /weaning from invasive and non-invasive ventilatory support ,fluids and vasoactive /inotropic support and safe administration of blood and blood products and monitor and responds to trends in physiological variables. |
| **PS2-** | **Prescribe** and manage long-term oxygen therapy and home ventilation |
|  | **PS3**- | Interpret the most important respiratory function tests (spirometry lung volumes). |
| **PS4** | -Assist in pre and post bronchoscopy care. |
|  | **PS5** | - Perform and manage various chest drains, and perform closed pleural biopsy |
| **PS6** | - Perform transthoracic needle aspiration and biopsy |

1. **General and Transferable Skills:**

At the end of this course, student should be able to:

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|  | **GS1** | -Maintain honesty and integrity in all interactions with teachers, colleagues and others with whom physicians must interact in their professional lives. |
| **GS 2** | - Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other workers. |
|  | **GS 3**  | Involve patients ( and /or their families /surrogates ) as appropriate in decisions about care and treatment |
| **GS 4** | - Be responsible towards work. |
|  | GS5 | Acquire the habit of life long learning  |
| **GS 6-** | **Collect** material needed for research using database. |

1. **Contents:**
	1. **Lectures:**

|  |  |  |
| --- | --- | --- |
| **Week No.** | **Topic** | **No. of hours** |
| 1 | ASTHMA | 2 |
| 2 | COPD | 2 |
| 3 | BRONCHIECTASIS | 2 |
| 4 | THORACIC TUMORS | 4 |
| 5 | RESPIRATORY INFECTIONS  | 2 |
| 6 | PULMONARY VASCULAR DISEASES | 4 |
| 7 | OCCUPATIONAL & ENVIRONMENTAL DISORDERS | 2 |
| 8 | Diffuse Interstitial lung diseases | 2 |
| 9 | Depositional lung diseases | 2 |
| 10 | ICU | 8 |
| 11 | SEPSIS | 2 |
| 12 | EXTRENSIC ALLERGIC ALVEOLITIS | 2 |
| 13 | COMMUNITY ACQUIRED PNEUMONIA | 2 |
| 14 | CONGENITAL LUNG DISEASES | 2 |
| 15 | MISEALANEOUS | 4 |
| 16  | Covid 19 pathophysiology , investigation, and ttt  | 2 |
| 17 | Post covid syndrome & vaccination | 2 |

* 1. **Practical/Tutorial:**

|  |  |  |
| --- | --- | --- |
| **Week No.** | **Topic** | **No. of hours** |
| 1 | history | 2 |
| 2 | general | 2 |
| 3 | inspection | 2 |
| 4 | palpation | 2 |
| 5 | percussion | 2 |
| 6 | ausculation | 2 |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |
| 11 |  |  |
| 12 |  |  |
| 13 |  |  |
| 14 |  |  |
| 15 |  |  |

1. **Teaching and Learning Methods:**

***4a) Methods used:***

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| --- | --- |
| ***T****ool* | ***Purpose(ILOs)*** |
| ***Lectures*** | ***KU1-99,IS1-39,PS1-24*** |
| ***Clinical training*** | ***PS1-24,GS1-42*** |
| ***Seminars and meeting*** | ***KU1-99,IS1-39,PS1-24, GS1-42*** |
| ***Thesis discussion*** | In master degree |

***4b)Teaching Plan:***

***Lectures : 2/week***

***Time: 2 hours***

***Clinical training: 4/week***

***Time: 3 hours***

***Case study:2/week Time:2 hours***

***Seminars and meeting:1/week***

***Time: 4hours***

***4c)Time Plan:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***Item*** | ***Time Schedul*e** | ***Teaching hours*** | ***Staff member*** |
| ***Lectures*** | ***12pm-2pm*** | ***2 h*** | ***All staff*** |
| ***Clinical training*** | 9am-12pm | ***3h*** | ***All staff*** |
| ***Case study*** | ***10am-12pm*** | ***2h*** | ***All staff*** |
| ***Seminars and meeting*** | ***10am-2pm*** | ***4h*** | ***All staff*** |
| ***Total*** |  |  |  |

1. **Student Assessment Methods**:
	1. **Assessment methods:**

***6A-Attendance criteria***

***75% is the minimum acceptable attendance***

***6B) Assessment tools***

|  |  |
| --- | --- |
| ***Tool*** | ***Purpose(ILO)*** |
| * ***Written examination.***
* ***Oral examination***
* ***Clinical cases***

***examination**** ***M.C.Q***
* ***Observed structured clinical examination***

***(OSCE)*** ***1-Pulmonary function testes exam******2 Arterial blood gases( ABG)******3-X-ray exam*** | ***A,B,C.*** |

* 1. **Assessment schedule:**

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| --- | --- |
| * ***Clinical round (logbook –research-history taking –case study)***
* ***Seminar presentation***
* ***Clinical exam***
* ***Oral exam***

 ***Extended direct observation*** | ***B,C,D*** |

|  |  |  |
| --- | --- | --- |
| Assessment 1 | Mid-term |  |
| Assessment 2 | Quiz |  |
| Assessment 3 | Practical  |  |
| Assessment 4 | Oral  |  |
| Assessment 5 | Written  |  |

* 1. **Weighing of Assessments:**

|  |  |
| --- | --- |
| 1st part  | By the end of 6 monthes |
| 2nd part | By the end of 6 monthes |
| Total | 100% |

1. **List of References:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Reference** | **type** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |

1. **Matrix of course contents versus ILOs:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Course contents** | **Study** **week** | **ILOs** |
| **knowledge and understanding** | **intellectual skills** | **professional and practical skills** | **general and transferable skills** |
| **1** |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |
| **11** |  |  |  |  |  |  |
| **12** |  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Signature** |
| **Course Insturctor:** |  |  |
| **Course Coordinator:** | **Dr. Lamiaa Gaber , Dr,Maha elsaed,Dr. hana sami** |  |
| **Head of Department**: | **Dr. Mohammed awad** |  |
| **Approval Date** |  |