



## إعتماد توصيف مقررات برنامج الدبلوم فى الأمراض الصدرية

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدبلوم فى الأمراض الصدرية والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام المعنية

م	اسم المقرر	اسم منسق المقرر	التوقيع	اسم رئيس القسم	التوقيع
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٣.	علم الصحة العامة من حيث علاقته بالدرن وانتشاره والوقاية منه	د/ أحمد فتحي حامد		د/ ايمان عبد الباسط محمد	
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عميد الكلية



وكيل الكلية للدراسات العليا



## Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	١٠/١٢/٢٠١١
- Prof. Ahmad K. Mansur	Mansura	٢٨/١١/٢٠١١

# Program Specification of Diploma Degree of Chest Diseases and Tuberculosis

Sohag University

Faculty of Medicine

## A. Basic Information

- ١- Program title: Diploma Degree in Chest Diseases and Tuberculosis
- ٢- Program type: Single
- ٣- faculty: Faculty of Medicine
- ٤- Department: Chest Diseases and Tuberculosis Department
- ٥- Coordinator: Dr. Mona Taha Hussein, Lecturer of Chest Diseases and Tuberculosis, Sohag Faculty of Medicine, Sohag University.
- ٦- Ass. Co-coordinator: Khaled Fawzy, assistant lecturer at Chest Department, Sohag Faculty of Medicine, Sohag University.
- ٧- External evaluator Professor/Hammad El-Shahat Hammad, Professor of Chest Diseases and Tuberculosis, Assuit University.
- ٨- Last date of program specifications approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## B. Professional Information

### ١. Program Aims

The aim of this program is to provide the Diploma graduate with the medical knowledge and skills essential for professional practice of Chest Diseases and Tuberculosis through providing:

١. Scientific knowledge essential for the practice of Chest diseases according to the international standards.
٢. Skills necessary for proper diagnosis and management of patients in the field of Chest diseases including diagnostic, problem solving and decision making and clinical skills.
٣. Ethical principles related to medical practice in general and with special concentration on Chest diseases practice.
٤. Active participation in community needs management and problems solving.
٥. Maintenance of abilities necessary for continuous medical education.

### ٢. Attributes of the post graduate:

١. Application of the specific knowledge gained during practice of Chest Diseases and Tuberculosis.
٢. Identification of professional problems in this specialty and suggest solutions for them.
٣. Mastering professional skills and usage of suitable technologies in practice of Chest Diseases and Tuberculosis.
٤. Ability to efficiently communicate and lead team works throughout organized professional work.
٥. Decision making at the lights of the available information.
٦. Perfect utilization of available resources.
٧. Awareness of his role in community development and maintain good environment.

- ا. Reflects the commitment to act with integrity, credibility and professional norms and accountability.
- ا. Recognize the need to develop himself and to engage in continuous learning.

٢. **Intended Learning Outcomes (ILOs)**

**a) Knowledge and Understanding**

By the end of the study of diploma program in Chest Diseases and Tuberculosis the Graduate should be able to:

- a١. Mention the normal structure and function of the organs related to the Chest specialty on the macro and micro levels.
- a٢. Describe the normal growth and development of these organs.
- a٣. List the abnormal structure, function, growth and development of these organs and natural history of common diseases.
- a٤. List the causation of disease and disease pathogenesis.
- a٥. Define the methods of promoting health and preventing illness.
- a٦. Illustrate the scientific methods of establishing disease causation.
- a٧. Tell clinical picture and differential diagnosis of common illnesses related to Chest specialty
- a٨. Define the diagnostic and laboratory techniques necessary to establish diagnosis of common illnesses related to Chest specialty
- a٩. List the principles and fundamentals of ethics and legal aspects of professional practice in the field of Chest Diseases and Tuberculosis.
- a١٠. Enumerate the principles and fundamentals of quality of professional practice in the field of Chest Diseases and Tuberculosis
- a١١. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a١٢. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
- a١٣. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values Define terms of research methodology

**b) Intellectual Skills**

By the end of the study of diploma program in Chest Diseases and Tuberculosis, the graduates should be able to:

- b١. Analyze the information in the field of Chest Diseases and Tuberculosis and rank them according to their priorities.
- b٢. Evaluate problems in the area of Chest Diseases and Tuberculosis.
- b٣. Criticize researches and issues related to Chest Diseases and Tuberculosis
- b٤. Measure risk professional practices in the field of Chest Diseases and Tuberculosis
- b٥. Apply professional decisions in light of the available data.

**c) Professional and Practical Skills**

By the end of the study of diploma program in Chest Diseases and Tuberculosis the graduates should be able to:

- c١. Perform professional skills in the field of Chest Diseases and Tuberculosis
- c٢. Design medical reports.
- c٣. Use appropriate technology in the field of Chest Diseases and Tuberculosis

#### d) General and Transferable Skills

By the end of the study of diploma program in Chest Diseases and Tuberculosis, the graduates should be able to:

- d\ . Communicate effectively by its different types of effective communication.
- d\ . Choose and use appropriate computer program package to serve the development of professional practice
- d\ . Asses himself and identify personal learning needs.
- d\x . Self learning and problem solving..
- d^\ . Work coherently and successfully as a part of a team, and manage time
- d\ . Work in team's leadership in familiar professional contexts.

#### ξ. Academic Standards

Sohag faculty of medicine adopted the general national academic reference standards (NARS) proved by the national authority for quality assurance and accreditation of education (Naqaae) for postgraduate programs. This was approved by the Faculty Council decree No. ٦٨٥ξ, in its cession No, ١٧٧ Dated: ١٨/٥/٢٠٠٩. Based on these NARS; Academic Reference Standards (ARS) were suggested for this program. These ARS were Revised by external Evaluator and approved by the Faculty Council decree No. ٧٥٢٨, in its cession No. ١٩١ dated ١٥/٣/٢٠١٠. The adoption of NARS and the suggested ARS were approved by University council degree No ٥٨٧, in its cession No. ٦٠. Dated ٢٦-١٢-٢٠١١

#### ο. Curriculum Structure and Contents

ο.a- Program duration: ٣ semester (١,٥ years)

ο.b- Program structure

οb.i- No. of hours per week:

Subject	hours /week		
	Lectures	Practical	Clinical
<b><u>First Part:</u></b>			
Pathology	ξ h	---	---
Medical Microbiology and Immunology	ξ h	---	---
Community Medicine and public Health	ξ h	---	---
Bio Statistics	١ h	٢ h	
<b><u>Second Part:</u></b>			
Internal Medicine	٢ h	---	٢ h
Clinical Manifestation of Pulmonary & Extra Pulmonary Tuberculosis Module	٢ h		٢ h
Practice of Outpatient , Inpatient and other forms of health care Facilities Module			٣ h
Diagnostic procedures ( Xray and others) Module	١,٥ h	١ h	١ h
Respiratory tract Diseases Module	١,٥	١	١

code	Item	No	%	
b.i	Total credit hours	Compulsory	39	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	12	30.8	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	19	48.9	
b.vi	credit hours of other course	8	20.5	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 <sup>st</sup> part	14	35.9	
	Level 2: 2 <sup>nd</sup> Part	20	51.1	

## 7. Program Courses

c.ii- Level of Program: first part semester one

### a. Compulsory

Course Title	No. of Credit hours	No. of hours /week			Program ILOs Covered (By No.)
		Lect.	Lab.	Exer.	
<b>First part</b>					
Pathology related to Chest Diseases	4 hr	4 hr	-	-	a3,4,6,7,8,b1,c1,3,d2,4,6
Medical Microbiology	4 hr	4 hr	-	-	a3,4,6,7,8,b1,c2,3,d2,4
Community Medicine and public Health	4 hr	4 hr	-	-	a6,7,11,b1,c2,3,d1,2,4,6
Biostatistics	2 hr	1 hr	2 hr		a12, a13 b3, c1, d3

### b- Optional – number required

Code No.	Course Title	No. of Units	No. of hours /week			Program ILOs Covered (By No.)
			Lect.	Lab.	Exer.	
	Not Applicable					

7.d- Level of Program: second part semester 2 & 3

Course Title	No. of credit hrs	No. of hours /week			Program ILOs Covered (By No.)
		Lect.	Lab.	Exer.	
Internal Medicine Module	6 hr	2 hr	2 hr		a7,b1,2,3,4,C1,3,d1,2,4,6,7
Clinical Manifestation Diagnosis & Management of Pulmonary & Extra Pulmonary Tuberculosis Module	6 hr	2 hr	2 hr		a1,a2,a4,6,7,8,9,10,11,b1,2,3,4,5,C1,3,d1,2,3,4,6,7
Practice of Outpatient, Inpatient and other forms of health care Facilities Module	3 hr		3 hr		
Diagnostic procedures ( Xray and others) Module	0 hr	1,0 hr	2 hr		
Respiratory tract Diseases Module	0 hr	1,0 hr	2 hr		

## ٧. Program Admission Requirements

### ١. **General Requirements:**

A- Candidates should have either:

١- MBBCH Degree from any Egyptian Faculty of Medicine or

٢- Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.

B- Candidate should complete the house office training year.

C- Follow postgraduate regulatory rules of Sohag Faculty of Medicine.

## ٨. Regulations for Progression and Program Completion

Duration of program is ٣ semesters (١,٠ years), starting from registration till the second part exam; divided to:

### **First Part: (≥ ٦ months = ١ semester):**

- Program-related basic science.
- At least six months after registration should pass before the student can ask for examination in the ١<sup>st</sup> part.
- Two sets of exams: ١<sup>st</sup> in April — ٢<sup>nd</sup> in October.
- For the student to pass the first part exam, a score of at least ٦٠% in each curriculum is needed (with at least ٤٠% of the written exam).
- Those who fail in one curriculum need to re-exam it only.

### **Second Part: (≥ ١٢ months = ٢ semester):**

- Program related specialized science of Chest Diseases and Tuberculosis Courses and Internal medicine courses.
- After passing at least
- ١٢ months training in the department of Chest Diseases and Tuberculosis
- The student should pass the first before asking for examination in the second part
- Two sets of exams: ١<sup>st</sup> in April — ٢<sup>nd</sup> in October.
- For the student to pass the second part exam, a score of at least ٦٠% is needed (with at least ٦٠% of the written exam and ٥٠% of the oral, clinical and practical exam).

## ٩. Methods of Student Assessments:

Method of assessment	The assessed ILOs
١-Research assignment	- General transferable skills, intellectual skills
٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
٣-OSCE	-Practical skills, intellectual skills, general transferable skills
٤-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

**Assessment schedule:**

Part I:

- Pathology, Medical Microbiology and Immunology and Community Medicine and public Health and Medical statistics: Written Exam (3 hours) + structured oral Exam.

Part II: -

- Internal Medicine: Written Exam (3 hours) + Structured oral Exam.

- Chest Diseases and Tuberculosis: Written Exam (3 hours) + OSCE + OSPE + Structured oral Exam + screening patients for at least three the number one case of Internal Medicine+ containing commentary.

**10. Evaluation of Program**

<b>Evaluator</b>	<b>Tool</b>	<b>Sample</b>
1-Senior students	questionnaire	3
2-Alumni	questionnaire	1
3-Stakeholders ( Employers)	questionnaire	5
4-External Evaluator(s) (External Examiner(s))	reports	1
5-Other		

## Course Specification of Pathology in Diploma Degree of Chest Diseases and Tuberculosis

**Sohag University**

**Faculty of Medicine**

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: minor
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: Pathology department, Medical Microbiology and Immunology department & public Health and Community Medicine and public Health department.
٥. Academic year/ Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program title** Course Specification of Pathology in Diploma degree in Chest Diseases and Tuberculosis

**Code:** Pat ٠٥٠٣-١٠٠

Courses	Lectures	Practical:	Total	Total Credit hours
Pathology	٦٠ hrs	----	٦٠ hrs	٤ hrs

### B. Professional Information

#### ١- Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of medical diseases.

#### ٢- Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) **Knowledge and Understanding:**

By the end of the course the student should be able to:

- a١. List the abnormal structure, function, growth and development of the organs related to chest and natural history of common diseases
- a٢. Mention the causation of disease and disease pathogenesis.
- a٣. Illustrate the scientific methods of establishing disease causation
- a٤. Enumerate the fate and complications and prognosis of different diseases especially lung & mediastinal diseases.

##### b) **Intellectual Skills:**

By the end of the course the student should have the ability to:

- b١. Interpret in a professional manner a pathology report in the field of Chest Diseases.

##### c) **Professional and Practical Skills:**

By the end of the course the student should have the ability to:

- c١. Identify the macroscopic and microscopic criteria of the altered structure (pathology) of the body and its major organs and systems that are seen in various diseases.

- c). Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, and degenerative) and mechanisms of diseases and the way through which they operate in the body (pathogenesis).

**d) General and Transferable Skills:**

By the end of the course the student should have the ability to:

- d). Use Effectively various computer based instruction tools and E-learning of Pathology and utilize a variety of computer-based self assessment tools
- d). Use the sources of biomedical information to remain current with the advances in knowledge and practice.
- d). Respect, be willing to work through systems, collaborate with other members of the students.

**3- Course Contents:**

Topic	No. of hours	Lecture	Practical
<u>1- General Pathology:</u>			
1,1. Inflammation & repair.	2	2	
1,2. Cell response to injury and aging.	2	2	
1,3. Disturbances of circulation.	2	2	
1,4. Immunity and hypersensitivity.	2	2	
1,5. Bacterial infection and tuberculosis.	2	2	
1,6. Diagnostic cytology.	2	2	
<u>2- Respiratory System:</u>			
2,1. Bronchitis, bronchial asthma & emphysema.	2	2	
2,2. Bronchiectasis & lung abscess	2	2	
2,3. Pneumonias & pneumoconiosis.	2	2	
2,4. Pleural effusion & empyema.	2	2	
2,5. Pneumothorax & pyopneumothorax.	2	2	
2,6. Tumors of the lung & pleura.	2	2	
2,7. Pulmonary hypertension.	2	2	
<u>3- Diseases of mediastinum:</u>			
3,1. Mediastinitis	2	2	
3,2. Mediastinal lymphoma.	2	2	
3,3. Thymoma	2	2	
<b>Total</b>	<b>60</b>	<b>60</b>	
<b>Credit</b>	<b>4</b>	<b>4</b>	

**4- Teaching and Learning Methods:**

- 4,1. Lectures.
- 4,2 practical sessions
- 4,3- Computer search assignments

**5- Student Assessment Methods**

Method of assessment	The assessed ILOs
5,1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5,2-Written Exam: -Short essay: 40% -structured questions: 20% -MCQs: 20% -Commentary, Problem solving: 10%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5,3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

٥,٤ Computer search assignment	-General transferable skills, intellectual skills
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### Assessment Schedule

Assessment ١. Written examination	٢٤ week
Assessment ٢. Structured Oral Exam	٢٤ week
Assessment ٣. Attendance and absenteeism	

### Weighting of Assessments

Final-term Written Examination	٥٠ %
Structured Oral Examination	٥٠ %
Total	١٠٠%

Formative only assessments: attendance and absenteeism and Computer search assignments

### ٦- List of References

- ٦,١- Course Notes: lecture notes prepared by staff members in the department
- ٦,٢- Essential Books (Text Books):
- Muir's text book of pathology, ٢٠٠٢.
  - Robbins pathologic basis of diseases, ٢٠٠٥.
- ٦,٣- Recommended Books:
- Rosi & Ackerman text book of Pathology, ٢٠٠٦.
  - Sternberg text book of Pathology, ٢٠٠٤.
- ٦,٤- Periodicals: -American Journal of Pathology  
 -Pathology  
 -Human pathology
- Web Sites: <http://www.ncbi.nlm.nih.gov/pubmed/>

### ٧- Facilities Required for Teaching and Learning

- ١- **Adequate infrastructure:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security
- ٢- **Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

**Course Coordinator: Dr.: Fatma El Zahraa Salah El Deen**

**Head of Department: Dr. Eman Muhammad Salah El Deen**

**Date: ١٨/١٢/٢٠١١, Revised: ١/٩/٢٠١٢, Revised: ١/١٢/٢٠١٣**

## Course Specification of Medical Microbiology and Immunology in Diploma Degree of Chest Diseases and Tuberculosis

**Sohag University**

**Faculty of Medicine**

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: minor
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: Medical Microbiology and Immunology department.
٥. Academic year/ Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program title** Course Specification of Medical Microbiology and Immunology in Diploma degree in Chest Diseases and Tuberculosis

**Code:** MIC ٠٥٣-١٠٠

Courses	Lectures	Practical	Total	Total Credit hours
<b>Medical Microbiology and Immunology</b>	٦٠ hrs	-----	٦٠ hrs	٤ hrs

### B. Professional Information

#### ١- Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt, and learn to use the knowledge gained from applied Medical Microbiology and Immunology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription. The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

#### ٢- Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) Knowledge and Understanding:

By the end of the course the student is expected to:

- a١. List the microorganisms affecting human beings all over the world and particularly in Egypt & the structure and function of immune system
- a٢. Describe the pathology, clinical symptoms and complications of each disease
- a٣. Describe some infection control methods
- a٤. Illustrate the scientific methods of establishing disease causation
- a٥. Mention clinical symptoms and complications of each disease.
- a٦. Define the diagnostic and laboratory techniques necessary to establish diagnosis of common illnesses related to Chest speciality

##### b) Intellectual Skills:

By the end of the course the student is expected to:

- b<sup>1</sup>. Interpret data acquired through history taking to reach a provisional diagnosis for chest diseases and differentiate between the different types of disease causing microbes
- b<sup>2</sup>. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for chest problems.
- b<sup>3</sup>. Determine the antibiotic regimen based on previous microbiological experience and laboratory tests.

**c) Professional and Practical Skills:**

By the end of the course the student should have the ability to

- c<sup>1</sup>. Identify the methods of staining, culturing and biochemical reactions
- c<sup>2</sup>. Recognize micro-organisms on morphological bases.
- c<sup>3</sup>. Recognize some serological tests used in diagnosis.

**d) General and Transferable Skills:**

By the end of the course the student should have the ability to:

- d<sup>1</sup>. Interpret a report containing microbiological or immunological data.
- d<sup>2</sup>. Use the computer and internet to gather scientific information
- d<sup>3</sup>. Use different sources to obtain information and knowledge.

**3- Course Contents:**

Topics	No. of hours	Lecture	Practical
<u>General Bacteriology</u>			----
Bacterial anatomy & Physiology	2	2	
Bacterial genetics	2	2	----
Recombinant DNA technology	2	2	----
Antibiotics	2	2	----
Sterilization & Disinfection	2	2	----
<u>Systematic Bacteriology</u>			----
Gram +ve cocci	2	2	
Gram -ve cocci	2	2	----
Gram +ve bacilli	2	2	----
Gram -ve bacilli	2	2	----
<u>General virology</u>	4	4	----
<u>Systematic Virology</u>			----
RNA viruses	4	4	
DNA viruses	4	4	----
<u>Mycology</u>			----
Fungal classifications	2	2	
Opportunistic mycosis	2	2	----
Antifungal drugs	2	2	----
<u>Immunology</u>			----
Congenital & Acquired Immunity	2	2	
Immunological Cells	4	4	----
Hypersensitivity	6	6	----
Transplantation	4	4	----
Tumor Immunology	4	4	----
Immunodeficiency	4	4	----
<b>Total</b>	<b>60</b>	<b>60</b>	----
<b>Credit</b>	<b>4</b>	<b>4</b>	----

#### ξ- Teaching and Learning Methods:

- ξ, ١. Lectures.
- ξ, ٢ practical sessions
- ξ, ٣- Computer search assignments

#### ο- Student Assessment Methods

Method of assessment	The assessed ILOs
ο, ١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
ο, ٢- Written Exam: - Short essay: ξ٠% - structured questions: ٢٠% - MCQs: ٢٠% - Commentary, Problem solving: ١٠%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
ο, ٣- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
ο, ξ Computer search assignment	- General transferable skills, intellectual skills

#### Assessment Schedule

- Assessment ١. Written examination ٢ ξ week
- Assessment ٢. Structured Oral Exam ٢ ξ week
- Assessment ٣. Attendance and absenteeism

#### Weighting of Assessments

Final-term Written Examination	ο٠ %
Structured Oral Examination	ο٠ %
Total	١٠٠ %

Formative only assessments: attendance and absenteeism and Computer search assignments

#### ٦- List of References

- ٦, ١- Course Notes  
lecture notes prepared by staff members in the department
- ٦, ٢- Essential Books (Text Books)  
Jawetz Medical Microbiology and Immunology, ٢٠٠٦  
Roitt Essential Immunology, ٢٠٠٧  
Abbas Clinical Immunology, ٢٠٠٩  
Alberts Molecular Biology, ٢٠٠٠
- ٦, ٣- Recommended Books  
A colored Atlas of Medical Microbiology and Immunology, ٢٠٠٠  
Topley and Wilson, Medical Microbiology and Immunology, ٢٠٠٠
- ٦, ξ- Periodicals, Web Sites, ... etc  
- Medical Microbiology and Immunology  
- Immunology  
<http://mic.sgmjournals.org/>

٧- **Facilities Required for Teaching and Learning**

١-**Adequate infrastructure:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security

٢-**Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

**Course Coordinator:** Dr. Mamdoh Esmat

**Head of Department:** Prof. Abeer Chenaf Mohamed

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

## Course Specification of Public Health Community Medicine in Diploma Degree of Chest Diseases and Tuberculosis

Sohag University

Faculty of Medicine

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: minor
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: public Health and Community Medicine and public Health department.
٥. Academic year/ Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program title** Course Specification public Health and medical statistics in Diploma degree in Chest Diseases and Tuberculosis

**Code:** COM ٠٥٠٣-١٠٠

Courses	Lectures	Practical:	Total:	Total Credit hours
Public Health	٦٠ hrs	-----	٦٠ hrs	٤ hrs

### B. Professional Information

#### ١- Overall Aims of Course

- To prepare a community-oriented physician capable of anticipating and responding to community health needs within the primary health care (PHC) setting according to the policies, regulations, and guidelines of the MOH.
- To develop a graduate who will apply the knowledge and skills learned, and is able to take leadership in motivating the community served.
- To influence the students to adopt a healthy lifestyle and sound behaviors to become role models for the individuals, families, and the communities they will serve in the future.

#### ٢- Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a١. Enumerate the methods of promoting health and preventing illness
- a٢. Illustrate the scientific methods of establishing disease causation
- a٣. Define health and disease
- a٤. Describe the spectrum of health
- a٥. Explain the three interacting ecological factors-agent, host, and environment-affecting the occurrence of disease
- a٦. Describe the determinants of health on the individual, the family, and the community levels
- a٧. Define public health and community medicine

- a<sup>^</sup>. Enumerate the methods of promoting health and preventing illness
- a<sup>9</sup>. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests

**b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b<sup>1</sup>. Evaluate indicators of health and disease
- b<sup>2</sup>. Identify prevalent health problems in a community, using various epidemiological strategies
- b<sup>3</sup>. Collect and verify data from different sources of TB
- b<sup>4</sup>. Identify trends in health and TB disease
- b<sup>5</sup>. Apply appropriate health promotion, disease prevention, and control measures of TB
- b<sup>6</sup>. Apply disease prevention and control measures to identified priority communicable situation of TB diseases
- b<sup>7</sup>. Participate in conducting public health surveillance.
- b<sup>8</sup>. Apply health behavior theories to different community health problems related to TB
- b<sup>9</sup>. Identify behavioral and social variables impacting health and TB disease
- b<sup>10</sup>. Apply appropriate communication strategies for use with clients, the health care team, and the community
- b<sup>11</sup>. Select and use appropriate health education methods and materials for TB
- b<sup>12</sup>. Counsel effectively in the health care environment
- b<sup>13</sup>. Advocate appropriately in the health care setting
- b<sup>14</sup>. Activate and mobilize the community toward improved health outcomes for TB
- b<sup>15</sup>. Identify and collect data variables impacting health and disease
- b<sup>16</sup>. Assess risk in professional practices in the field of Chest Diseases and Tuberculosis.
- b<sup>17</sup>. Analyze research and issues related to the Chest Diseases and Tuberculosis

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c<sup>1</sup>. Perform community diagnosis
- c<sup>2</sup>. Conduct Social & Health Surveys
- c<sup>3</sup>. Diagnose an epidemic

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d<sup>1</sup>. Communicate effectively by its different types of effective communication.
- d<sup>2</sup>. Use information technology to serve the development of professional practice
- d<sup>3</sup>. Use different sources to obtain information and knowledge.
- d<sup>4</sup>. Work coherently and successfully as a part of a team and team's leadership.
- d<sup>5</sup>. Use different sources to obtain information and knowledge and collect data.

**3- Course Contents:**

Topic	No. of hours	Lecture	Tutorial/Practical
General introduction: Terminology Rationale of public health and epidemiology	10	10	-

Infectious cycle of TB: Agent Reservoir and sources of infection Exit Modes of diseases transmission Inlet Susceptibility and immunity Environmental epidemiology that favor TB,	٢.	٢.	
Epidemiology of selected chronic lung diseases,	١.	١.	
Occupational diseases and Cancer	٢.	٢.	
Total	٦.	٦.	-

٤- **Teaching and Learning Methods:**

- ٤,١. Lectures.
- ٤,٢ practical sessions
- ٤,٣- Computer search assignments

٥- **Student Assessment Methods**

Method of assessment	The assessed ILOs
٥,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
٥,٣-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
٥,٤ Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

- Assessment ١. Written examination ٢٤week
- Assessment ٢. Structured Oral Exam ٢٤week
- Assessment ٣. Attendance and absenteeism

**Weighting of Assessments**

Final-term Written Examination	٥٠ %
Structured Oral Examination	٥٠ %
Total	١٠٠%

Formative only assessments: attendance and absenteeism and Computer search assignments

٦- **List of References**

١. **List of References**

- ٦,١- Course Notes  
Lecture notes prepared by staff members in the department
- ٦,٢- Essential Books (Text Books)  
١-Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc., ٢٠٠٢.
- ٦,٣- Recommended Books

- ١- Dimensions of Community Health, Boston Burr Ridge Dubuque, ٢٠٠٣.
- ٢- Short Textbook of preventive and social Medicine. Prentice-Hall International Inc., ٢٠٠٤.
- ٣- Epidemiology in medical practice, ٥<sup>th</sup> edition. Churchill Livingstone. New York, London and Tokyo, ٢٠٠٣.
- ٦,٤- Periodicals, Web Sites etc
  - ١-American Journal of Epidemiology
  - ٢-British Journal of Epidemiology and Community Health
  - ٣- WWW. CDC and WHO sites

٧- **Facilities Required for Teaching and Learning**

- ١-**Adequate infrastructure:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security
- ٢-**Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

**Course Coordinator:** Dr/ Ahmed Fathy Hamed

**Head of Department:** Prof/Eman Abd El-Baset Mohammed

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

## Course Specification of Biostatistics in Diploma Degree of Chest Diseases and Tuberculosis

**Sohag University**

**Faculty of Medicine**

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: minor
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: public Health and Community Medicine and public Health department.
٥. Academic year/ Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program title** Course Specification of medical Biostatistics in Diploma degree in Chest Diseases and Tuberculosis

**Code:** COM ٠٥٠٣-١٠٠

Course	Lectures	Practical:	Total:	Total credit hours :
<b>Medical Biostatistics</b>	١٥ hrs	٣٠	٤٥	٢ hrs

### B. Professional Information

#### ١. Overall Aims of Course

To develop a graduate who will apply the knowledge and skills learned, and is able to utilize the basics of medical statistics in his career and research

#### ٢. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) Knowledge and understanding:

By the end of the course, the student is expected to practice the following:

- a١. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
- a٢. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values Define terms of research methodology

##### b) Intellectual Skills

By the end of the course, the student is expected to practice the following:

- b١. Identify and collect data variables impacting health and disease
- b٢. Assess risk in professional practices in the field of Chest Diseases and Tuberculosis.
- b٣. Analyze research and issues related to the Chest Diseases and Tuberculosis

##### c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

- c١. Perform community diagnosis
- c٢. Conduct Social & Health Surveys
- c٣. Diagnose an epidemic

**d) General and Transferable Skills**

By the end of the course, the student is expected to practice the following:

- d\ . Use different sources to obtain information and knowledge.
- d\ . Work coherently and successfully as a part of a team and team's leadership.
- d\ . Use different sources to obtain information and knowledge and collect data

**۳- Course Contents:**

Topic	No. of hours	Lecture	Practical
Methodology & statistics Terminology and rationale Data collection Types of Data Tabulation of data Graphical presentation of data Measures of central tendency Measures of dispersion Normal distribution curves International classification of diseases International death certificate Study design: Cross sectional study and the prevalence rate Cohort study, incidence rate, relative & attributable risk Case-control study, Odd's ratio Sampling Investigation of an epidemic, the attack rates	۴۵	۱۵	۳۰
Total	۴۵	۱۵	۳۰

**۴- Teaching and Learning Methods:**

- ۴, ۱. Lectures.
- ۴, ۲ practical sessions
- ۴, ۳- Computer search assignments

**۵- Student Assessment Methods**

Method of assessment	The assessed ILOs
۵, ۱- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
۵, ۲- Written Exam: -Short essay: ۴۰٪ -structured questions: ۲۵٪ -MCQs: ۲۰٪ -Commentary, Problem solving: ۱۵٪	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
۵, ۳-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
۵, ۴ Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

- Assessment ۱. Written examination ۲۴week
- Assessment ۲. Structured Oral Exam ۲۴week

Assessment ٣. Attendance and absenteeism

**Weighting of Assessments**

Final-term Written Examination	٥٠ %
Structured Oral Examination	٥٠ %
Total	١٠٠ %

Formative only assessments: attendance and absenteeism and Computer search assignments

٦- **List of References**

٦,١- Course Notes

Lecture notes prepared by staff members in the department

Epidemiology in medical practice, ٥<sup>th</sup> edition. Churchill Livingstone. New York, London and Tokyo, ٢٠٠٣.

٦,٤- Periodicals, Web Sites etc

١- American Journal of Epidemiology

٢- British Journal of Epidemiology and Community Health

٣- WWW. CDC and WHO sites

٧- **Facilities Required for Teaching and Learning**

١- **Adequate infrastructure:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security

٢- **Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

**Course Coordinator:** Dr /Ahmed Fathy Hammed

**Head of Department:** Prof /Eman Abd El-Baset Mohammed

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

## Course Specification of Internal Medicine in Diploma Degree of Chest Diseases and Tuberculosis

Sohag University

Faculty of Medicine

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: major
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: Internal Medicine
٥. Academic year/ Level: second part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program Title: Diploma Degree in Chest Diseases and Tuberculosis course**  
**Code:**

Lecture	Practical:	Tutorial clinical	Total	Total credit hours
٦٠ hrs	-----	٦٠ hrs	١٢٠ hrs	٦

### B. Professional Information

#### ١. Overall Aims of Course

By the end of the course of Internal Medicine, the candidate should be able to:

- ١- Deal with common medical conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- ٢- Deal with acute medical emergencies safely and effectively.
- ٣- Identify the indications and logistics of referring patients to higher levels of experience or specialization.

#### ٢. Intended Learning Outcomes of Course (ILOs)

##### a) Knowledge and Understanding:

- a١. Enumerate clinical symptomatology related to different Internal medicine disorders.
- a٢. Enumerate the clinical spectrum of common medical conditions with multisystem affection.
- a٣. Describe the concept of emergency management of acute medical disorders.

##### b) Intellectual Skills

- b١. Interpret the most important symptoms and signs of disease in Internal Medicine patients.
- b٢. Formulate appropriate management plans for individual patients presenting with the most common medical disorders.
- b٣. Make decisions regarding common clinical situations using appropriate problem solving skills.
- b٤. Interpret X-ray and CT films, blood gas and blood picture reports covering the most important medical conditions.

- b<sup>o</sup>. Analyze researches and issues related to Chest Diseases and Tuberculosis  
 b<sup>٦</sup>. Assess risk professional practices in the field of Chest Diseases and Tuberculosis

**c) Professional and Practical Skills**

- c<sup>١</sup>. Conduct a proper general examination and identify normal and major abnormal physical signs.  
 c<sup>٢</sup>. Conduct proper regional examination of the thorax and abdomen by inspection, palpation, percussion and auscultation to identify:  
 - Surface anatomy of internal organs.  
 - Normal physical signs.  
 - Major abnormal physical signs.  
 c<sup>٣</sup>. Develop and present a comprehensive medical sheet including history and physical examination.  
 c<sup>٤</sup>. Interpret the significance and relevance of abnormal physical signs.  
 c<sup>٥</sup>. Identify the appropriate supportive investigations relevant to a particular patient and adequately interpret the results.  
 c<sup>٦</sup>. Integrate the patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis.  
 c<sup>٧</sup>. Integrate with specialist approach to the diagnosis of common medical conditions related to the specialty.  
 c<sup>٨</sup>. Assess information about diagnostic tools within the specialty.  
 c<sup>٩</sup>. Adequately interpret the results of common laboratory investigations as urine analysis, blood picture, liver and kidney function tests, etc.  
 c<sup>١٠</sup>. Properly read X-ray, CT and ultrasonic images of common diseases.

**d) General and Transferable Skills:**

- d<sup>١</sup>. Communicate effectively by its different types of effective communication  
 d<sup>٢</sup>. Use information technology to serve the development of professional practice  
 d<sup>٣</sup>. Use different sources to obtain information and knowledge.  
 d<sup>٤</sup>. Work in a team, and manage time  
 d<sup>٥</sup>. Work in a team, and team's leadership in various professional contexts.

**٣. Contents**

Topics	No. of hours	Leetfur	Clinical
Clinical uses of corticosteroids			
Diabetes mellitus	٤	٤	٢
<b>Cardiology:</b>	٢	١	١
<b>Cardiovascular</b> Symptoms and signs	٧	٣,٥	٣,٥
Rheumatic fever	٣	١,٥	١,٥
Infective endocarditis	٢	١,٥	١,٥
Megaloblastic anemia	١٠	٥	٥
Aplastic anemia			
<b>Coronary artery diseases</b>			
Leukemias and Lymphomas	٤	٤	٤
Atherosclerosis Acute Coronary syndromes			
Thrombosis of platelets and vessel wall	٦	٣	٣
Thrombocytopenia Purpura	٣	١,٥	١,٥
<b>Hematology</b>	٣	١,٥	١,٥
<b>Endocrinology</b>	٤	٢	٢
Structure and function	٤	٢	٢
Diabetes mellitus	٤	٢	٢
<b>Disturbed renal function:</b>			
Acute renal failure	٤	٢	٢
Chronic renal failure			
Hypertension			

-Investigations of renal disease	ε	ϒ	ϒ
<b><u>ϑ- Gastroenterology</u></b>			
-Gastro esophageal junction disorders -Bleeding disorders	ε	ϒ	ϒ
Peptic ulcer and gastritis	ε	ϒ	ϒ
Hepatitis	ϛ	ϓ	ϓ
Cirrhosis	ε	ϒ	ϒ
Hepatocellular failure	ε	ϒ	ϒ
Ascites and peritoneal diseases	ε	ϒ	ϒ
<b><u>ϛ- Rheumatology</u></b>			
- Systemic lupus erythromatosis Scleroderma	ε	ϒ	ϒ
Rheumatoid arthritis	ε	ϒ	ϒ
Systemic vasculitis	ε	ϒ	ϒ
<b>Total</b>	<b>12.</b>	<b>6.</b>	<b>6.</b>
<b>Credit</b>	<b>6</b>	<b>ε</b>	<b>ϒ</b>

## Cardiology Teaching

The cardiology curriculum is designed so that at the end of the course the candidate will be able to:

- ١- Know the principles of cardiovascular anatomy and physiology which are relevant to cardiovascular diseases.
- ٢- Know the basic patho-physiological and structural alteration that occur in cardiovascular diseases.
- ٣- Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
  - Heart failure (acute, chronic, systolic, diastolic)
  - Rheumatic fever, rheumatic heart disease including the affection of the pericardium and cardiac valves.
  - Causes features and management of infective endocarditis.
  - Coronary artery diseases (pathogenesis, risk factors, clinical features, complications and detail of both prophylactic and curative treatment)
  - The problem of hypertension in Egypt and the importance of all grades of elevated blood pressure also causes and features of essential and secondary hypertension,, also methods of treatment and the problem attending the use of antihypertensive drugs.
  - The interaction between the lung and the heart and causes Clinical presentation and management of pulmonary embolism and cor pulmonale)

### **Skills: The graduate should be able to:**

- Elicit normal and abnormal cardiovascular signs such as general features, attitude, facies, BP arterial and venous pulse,
- Elicit normal and abnormal physical signs in chest and abdominal examination that may cause or accompany or result from cardiac disease such as hepatomegaly, splenomegaly, ascites,

Can perform successfully basic life support and cardiac resuscitation (cardiac massage, mouth to mouth breath) either alone or with a team.

- He should be able to interpret normal and abnormal cardiac shadows in chest X-ray.

### **Cardiology teaching (Methodology):**

A combination of strategies are used to reach the above mentioned objects, this include lectures, clinical and self teaching.

- i. **Lectures:** lectures are given to accompany the clinical and the practical teaching. They are designed to cover the salient features, difficult aspects, recent advances not usually incorporated in students text books and specific personal practices of the following subjects

### **B- Practical teaching (Cardiology)**

#### **Practical Topics:**

- ١-Cardiovascular history taking
- ٢-Cardiac examination (including pulse BP, and Jugular venous pressure comment)
- ٣-Cardiac valve lesions
- ٤-Rheumatic heart disease
- ٥-Infective endocarditis
- ٦-Heart failure

√-Cardiomyopathy

ƴ-Self teaching: This includes:

- Personal or group ward responsibilities including follow up of inpatients in the department.
- Cardiology outpatient sessions in which the student examine the patients with the assistant lecturer to recognize the presenting

### **Endocrinology teaching**

The curriculum consists of integrated theoretical, clinical and practical training courses.

#### **Terminal objectives are:**

- 1-To know the principles of the physiology of endocrinal system
- 2-To know the basic pathophysiological and structural alteration changes that occur in common endocrinal diseases.
- 3-To know important presenting features of endocrinal diseases
- 4-To diagnose various endocrinal emergencies
- 5-To know the basics of various investigations of endocrinal diseases
- 6-To interpret endocrinal imaging such as X-ray , CT and MRI of different endocrinal organs.

#### **Endocrinology teaching (Methodology)**

A combination of strategies is used to reach the above mentioned objectives. This includes:

### **Hematology Teaching**

The curriculum consists of theoretical practical and training courses.

#### **Terminal objectives in teaching hematology are:**

- 1- To know the physiology of blood cells (RBCs, WBCs and platelets, and homeostasis.
- 2- To know the anatomy of the lymphatic and hematopoietic organs
- 3- To know the important causes, presentation and management of various types of anemia.
- 4- To examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.
- 5- To know causes manifestation and management of bleeding and coagulation disorders.
- 6- To know causes presentation and management of various hematological malignancies (Leukemia, lymphomas, plasma cell tumors).
- 7-To interpret lab investigations as blood picture, bone marrow examination, results of lymph node, spleen biopsy, and tests for coagulation disorders.
- 8-To know recent advances in treatment of various hematological disorders as bone marrow transplantation, immunological treatment,.....

#### **Hematology teaching (Methodology) :**

Combinations of strategies are used to reach the above mentioned objectives. This includes:

### **The Hematology curriculum is designed so that at the end of the course the student is able to:**

-Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:

- Jaundice (classification, causes and management)
- Ascites including causes rather than portal hypertension
- Liver cirrhosis (causes, presentation and complications).
- Liver cell failure ( acute and chronic)

- Hepatomegaly (causes and management)
- Splenomegaly (including causes and management of huge splenomegaly)
- Hepatitis (acute and chronic)

### Nephrology teaching

### Gastroenterology teaching

#### Terminal objectives in teaching gastroenterology are:

- To know the important causes, presentation and management of the following disorders affecting the gastrointestinal tract:
  - Esophageal diseases (GERD, oesphagitis, cancer)
  - Peptic ulcer, gastritis, gastric malignancies.

### Rheumatology teaching

#### ξ. Teaching and Learning Methods

- ξ, 1- Illustrated lectures
- ξ, 2- Clinical training in the department for two months
- ξ, 3- Attendance in outpatients clinic (twice/week for 1 weeks)
- ξ, 4- Case studies in department conference (once/week for 1 weeks)
- ξ, 5- Interactive presentations (lectures with discussion)

#### ο. Student Assessment Methods

Method of assessment	The assessed ILOs
ο, 1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
ο, 2- Log book	- General transferable skills
ο, 3- Written Exam: -Short essay: 10% -structured questions: 20% -MCQs: 20% -Commentary, Problem solving: 10%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
ο, 4- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
ο, 5- OSCE	-Practical skills, intellectual skills General transferable skills

#### **Assessment schedule:**

<b>Assessment</b>	review	Week 18
<b>Assessment</b>	final written exam	Week 18
<b>Assessment</b>	OSCE	Week 18
<b>Assessment</b>	Structured Oral Exam	Week 18

#### **Weighting of Assessments**

Final- written Examination	50%
Structured Oral Exam	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism

#### ϒ. List of References

- ϒ, 1- Course Notes
- ϒ, 2- Essential Books (Text Books)
  - Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 1<sup>st</sup> edition, 2007
  - Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 2<sup>nd</sup> edition; 2003

٦,٣- Recommended Books

- Cecil Textbook of Medicine; McGraw Hill; ١٦<sup>th</sup> edition, ٢٠٠٧
- Harrison's Textbook of Medicine, McGraw Hill, ٢٠٠٥.

٦,٤- Periodicals, Web Sites, ... etc

٧. **Facilities Required for Teaching and Learning:**

- ١- **ADEQUATE INTRASTRUCTURE:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security
- ٢- **Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers.

**Course Coordinator:** Lecturer. Mervat Mohamed Ahmed Attia

**Head of Department:** Prof. Hasan Shehata

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

## Course Specification of Chest Diseases in Diploma Degree of Chest Diseases and Tuberculosis

**Sohag University**

**Faculty of Medicine**

١. Program on which the course is given: Diploma Degree of Chest Diseases and Tuberculosis
٢. Major or minor element of program: major
٣. Department offering the program: Chest Diseases and Tuberculosis
٤. Department offering the course: Chest Diseases and Tuberculosis
٥. Academic year/ Level: second part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

### A. Basic Information

**Program Title: Diploma Degree in Chest Diseases and Tuberculosis course**

**Code: Che ٠٥٠٣-١٠٠**

	Lecture	Tutorial: clinical	Total hrs	Total Credit
Clinical Manifestation Diagnosis & Management of Pulmonary & Extra Pulmonary Tuberculosis Module	٦٠	٦٠	١٢٠	٦
Practice of Outpatient , Inpatient and other forms of health care Facilities Module		٩٠	٩٠	٣
Diagnostic procedures ( X-ray and others) Module	٤٥	٦٠	١٠٥	٥
Respiratory tract Diseases Module	٤٥	٦٠	١٠٥	٥

### B. Professional Information

#### ١. Overall Aims of Course

By the end of the course the student should be able to:

١. Deal with common chest diseases on the basis of adequate history taking, physical examination, interpretation of relevant supportive investigations and management.
٢. Perceive and integrate progress in medical technology.

#### ٢. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) Knowledge and Understanding:

By the end of the course the student should be able to:

- a١. Mention the causation of disease and disease pathogenesis
- a٢. Illustrate the scientific methods of establishing disease causation
- a٣. Enumerate clinical picture and differential diagnosis of common illnesses related to Chest specialty
- a٤. Define the diagnostic and laboratory techniques necessary to establish diagnosis of common illnesses related to Chest specialty
- a٥. Describe the various therapeutic methods/alternatives used for common chest diseases
- a٦. List the effect of professional practice on the environment and the methods of environmental development and maintenance.

- a<sup>v</sup>. Mention the normal structure and function of the organs related to the Chest specialty on the macro and micro levels.
- a<sup>^</sup>. Describe the normal growth and development of these organs.
- a<sup>9</sup>. List the principles and fundamentals of ethics and legal aspects of professional practice in the field of Chest Diseases and Tuberculosis.
- a<sup>10</sup>. Enumerate the principles and fundamentals of quality of professional practice in the field of Chest Diseases and Tuberculosis

**b) Intellectual Skills:**

By the end of the course the student should have the ability to:

- b<sup>1</sup>. Analyze patients history and interpret the most important symptoms and signs and radiological pictures of different chest disorders.
- b<sup>2</sup>. Solve problems in the specialty of Chest Diseases and Tuberculosis in light of the available data.
- b<sup>3</sup>. Analyze researches and issues related to Chest Diseases and Tuberculosis
- b<sup>4</sup>. Assess risk in professional practices in the field of Chest Diseases and Tuberculosis as MDRS TB , lung cancer .
- b<sup>5</sup>. Make professional decisions in light of the available data.

**c) Professional and Practical Skills:**

By the end of the course the student should have the ability to:

- c<sup>1</sup>. Perform proper chest examination and identify chest diseases symptoms and signs.
- c<sup>2</sup>. Integrate the patients symptomatology, historic data, abnormal chest manifestations and investigations into a comprehensive differential diagnosis.
- c<sup>3</sup>. Perform the diagnosis of common illnesses.
- c<sup>4</sup>. Adequately interpret the results of common laboratory investigations as urine analysis, blood picture, liver and renal function tests, ect.
- c<sup>5</sup>. Properly read X-ray chest and interpret pulmonary function tests and blood gas of different respiratory diseases pattern
- c<sup>6</sup>. -Adequately evaluate the patients in acute morbidity specially chest emergency and need for urgent intervention.
- c<sup>7</sup>. Assess special therapeutic and interventional techniques related to specialty.
- c<sup>8</sup>. Assess the methods of clinical assessment and monitoring, their significance and interrelations.
- c<sup>9</sup>. Recognize the indications for consulting higher level or reference to other disciplines

**d) General and Transferable Skills:**

By the end of the course the student should have the ability to:

- d<sup>1</sup>. Communicate effectively by its different types of effective communication.
- d<sup>2</sup>. Use information technology to serve the development of professional practice
- d<sup>3</sup>. Asses himself and identify personal learning needs.
- d<sup>4</sup>. Use different sources to obtain information and knowledge..
- d<sup>5</sup>. Work in a team, and manage time
- d<sup>6</sup>. Work in a team, and team's leadership in familiar professional contexts.

**3. Contents:-**

Topic	No. of hours	Lecture	Practical
Clinical Manifestation Diagnosis & Management of Pulmonary & Extra Pulmonary Tuberculosis Module		6.	6.

Practice of Outpatient , Inpatient and other forms of health care Facilities Module	٩٠		٩٠
Diagnostic procedures ( Xray and others) Module	١٠٠	٤٥	٦٠
Respiratory tract Diseases Module:	١٠٥	٤٥	٦٠
The development and structure of the respiratory tract	٢	١	١
Functions of the respiratory tract	٣	١	٢
The clinical manifestations of respiratory diseases	٤	٢	٢
Drugs used in respiratory diseases	٣,٥	١,٥	٢
Acute infection: URT, trachea and bronchi.	١,٥	.٥	١
Pneumonias	٧	٢	٥
Chronic bronchitis and Emphysema	٨	٢	٦
Respiratory failure.	٧	٢	٥
Pulmonary embolism.	٣	١	٢
Pulmonary hypertension an cor pulmonale..	٤	٢	٢
Pulmonary edema and Acute respiratory distress syndrome	٢	١	١
Bronchiectasis	٧	٢	٥
Sarcoidosis.	٢	١	١
Bronchial asthma	٩	٣	٦
Hypersensitivity pneumonitis.	٢	١	١
Pulmonary eosinophilia	٢	١	١
Pulmonary angiitis and granulomatosis.	٢	١	١
Occupational lung diseases	٣	٢	١
Drug induced lung disease.	١	١	١
Lung in immune compromised patients	٣	٢	١
Pulmonary neoplasms.	١٠	٥	٥
Cryptogenic fibro sing alveoli is	٥	٣	٢
Pulmonary manifestations of systemic diseases	٣	٢	١
Development disorders of the lungs.	٣	٢	١
Diseases of the Pleura.	٣	٢	١
Diseases of the mediastinum.	٣	٢	١
Anomalies and diseases of the diaphragm.	٣	٢	١
Diseases of the chest wall.	٣	٢	١
<b>Total</b>	<b>٤٢٠</b>	<b>١٥٠</b>	<b>٢٧٠</b>
<b>Credit</b>	<b>١٩</b>	<b>١٠</b>	<b>٩</b>

#### ٤. Teaching and Learning Methods:

- ٤,١- Illustrated lectures.
- ٤,٢- Clinical rounds on patients (twice/weekly for ٨ weeks)
- ٤,٣- attendance in outpatients clinic (twice/ weekly for ٨ weeks)
- ٤,٤- Case studies in department conference (once weekly for ٨ weeks)
- ٤,٥- Interactive presentation (lectures with discussion)

#### ٥. Student Assessment Methods

Method of assessment	The assessed ILOs
١,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
١,٢- Log book	- General transferable skills
١,٣- Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
١,٤- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
١,٥- OSCE	- Practical skills, intellectual skills General transferable skills

#### Assessment schedule:

Assessment	review week	Week ٤٨
Assessment	final written exam	Week ٤٨
Assessment	OSCE	Week ٤٨
Assessment	Structured Oral Exam	Week ٤٨

#### Weighting of Assessments

Final- written Examination	٥٠%
Structured Oral Examination	٣٠%
OSCE	٢٠%
Total	١٠٠%

Formative only assessments: attendance and absenteeism

#### ٦. List of References

- ٦,١- Course Notes: lecture notes prepared by staff members in the department
- ٦,٢- Essential Books (Text Books): Crofton and Doglas, Feshman Text book for chest diseases, ٢٠٠٢.
- ٦,٣- Recommended Books: Pulmonary secrets, Text book for pulmonary medicine, ٢٠٠٣.
- ٦,٤- Periodicals, Web Sites: [www.ersnet.org](http://www.ersnet.org), [www.ERS-education.org](http://www.ERS-education.org),  
[www.erj.ersjournals.com](http://www.erj.ersjournals.com), <http://err.ersjournals.com>.

#### ٧. Facilities Required for Teaching and Learning:

- ١- **ADEQUATE INTRASTRUCTURE:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security
- ٢- **Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers.

**Course Coordinator:** Dr. Azaa Mahmoud Ahmed.

**Head of Department:** Assistant Prof. Dr Hamdy Ali Mohammadien

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣