

University / Academy: AI Azhar University

Faculty / Institute: Faculty of Medicine

Department: Community Medicine and Industrial Medicine Dep.

Form no. (12)
Course Specification

1. Course Data		
Course Code: Occup.1100	Course Title: Doctorate	Academic Year / level 2014/2015
Specialization: Community Occupational health & industrial medicine	No. of Instructional Units: 42hrs/24ws Lecture: 18hrs /w(6 for seminars) Practical: 24hrs/w	

2- Course Aim	After completing the program candidate should be able to: <ul style="list-style-type: none">- Perform perfectly the basic and different methods of scientific research.- Continuously work on adding advanced knowledge to the field of occupational & industrial medicine.- Apply and use the analytical and evaluating approaches in researches related to occupational health & industrial medicine and the related subjects.- integrate different knowledge of occupational health & industrial medicine with the recent knowledge of related subjects as internal medicine, psychiatry, dermatology etc.- Be aware about existing occupational, industrial & environmental health problems and new perspectives.- Recognize occupational & industrial health problems and find new, advanced solutions.- Be competent in using several new professional skills in the field of occupational health & industrial medicine.- Improving & upgrading different. methods & tools in practicing occupational health & industrial medicine.- Using the most suitable and advanced technology to support his practice in the field of occupational health.- Have practical & interacting communication skills and be capable of leading different teams in different occupational settings.- Be able to take decisions according to the available data & information.- To use the available resources efficiently and find other new suitable resources.- Be aware about his role in community development and environmental preservation.- Have professional attitude and behaviors based on appropriate
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	<p>medical ethics.</p> <ul style="list-style-type: none"> - Develop his academic & professional skills and transfer his knowledge and experience to others.
<p>3. Intended learning Outcome [ILOs]</p>	
<p>a. Knowledge and Understanding:</p>	<p><i>By the end of the program candidate will be able to:</i></p> <p>a1-Basic facts & theories of occupational health & industrial medicine and related subjects such as; industrial medicine, occupational health, industrial chemistry, environmental and respiratory. physiology and behavioral and social science.</p> <p>a2-Mutual relation between occupational and industrial health practice and its effect on the environment (physical, chemical & biological effects).</p> <p>a3-Recent advances in the field of occupational health & industrial medicine.</p> <p>a4-Details of ethical and legal practice of occupational health & industrial medicine.</p> <p>a5-Quality standards of different occupational and environmental exposure.</p> <p>a6-Design, conduct & publish scientific research in the field of occupational health & industrial medicine.</p> <p>a7- Ethical considerations should be followed in performing his scientific research.</p>
<p>b. Intellectual Skills:</p>	<p><i>By the end of the program the candidate will be able to:</i></p> <p>b1- Analyze, deduce, extrapolate and evaluate information collected from studying different occupational & environmental health problems.</p> <p>b2- Solve the majority of these problems according to available data (complete or incomplete).</p> <p>b3- Conduct new research studies that add to the existing knowledge in this field.</p> <p>b4- Publish scientific articles /papers in both national and international journals.</p> <p>b5- Risk evaluation & planning for improvement of different methods of solving occupational & environmental problems.</p> <p>b6-Take decisions in various situations</p>

	<p>concerning occupational & environmental problems (dilemmas & controversial issues).</p> <p>b7-Be creative and add to their specialty.</p> <p>b8-Practicating in discussions taking into consideration evidence and proofs.</p>
<p>c. Professional Skills</p>	<p><i>By the end of the program the candidate will be able to:</i></p> <p>C1- Be competent in all basic and all required advanced skills of occupational and industrial health practice (environmental monitoring-ventilator function assessment – biological monitoring).</p> <p>C2-Write and appraise reports for evaluation of health hazards at different industrial settings.</p> <p>C3- Evaluate and improve methods & tools used for detecting environmental and occupational health hazards</p> <p>C4-Use the most recent technology in environmental and biological monitoring of different occupational health hazards.</p> <p>C5-Plan professional development courses to improve practice and enhance performance of juniors (e.g. courses in disability evaluation, ventilator y function performance, and assessment of safety measures taken in different industrial settings).</p>
<p>d. General Skills:</p>	<p><i>By the end of the program the candidate will be able to:</i></p> <p>d1- Communicate effectively using all methods of health education.</p> <p>d2- Use information technology efficiently to serve in upgrading the practice of occupational health & industrial medicine.</p> <p>d3- Teach & evaluate performance of other colleagues or junior staff.</p> <p>d4-Perform self appraisal and seek continuous learning methods.</p> <p>d5- Use different sources of information to obtain data as internet, recent periodicals & advanced text books.</p> <p>d6-Work as a team leader in small groups (small plants, industrial health care unit. .. etc) as well as a member in larger teams (Large factories, environmental research</p>

	centers ... etc.). d7-Manage scientific meetings and appropriately utilize time.
4. Course Content	Industrial Medicine. Occupational health. Industrial chemistry. Environmental and respiratory physiology. Behavioral and social science. Clinical courses only in internal medicine.
5- Teaching and Learning Methods	Lectures, Practical & field visits and Clinical.
6- Teaching and Learning Methods for Students with Special Needs
7- Student Assessment:	
a. Procedures used:	Written Examination. Practical and Oral Examination. Clinical Examination.
b. Schedule:	Four papers written Exams (Short essay and MCQ exams). Practical and Oral Examination. Clinical Examination.
c. Weighing of Assessment:	Written Exam : 400 Marks Oral & Practical : 100 Marks Clinical Exam : 100 Marks Total : 600 Marks
8- list of Textbooks and References:	
a. Course Notes	Paper and / or electronic.
b. Required Books (Textbooks)	Current Occupational and Environmental Medicine (Ladou J). Environmental and Occupational Medicine (William N. Rom). HUTCHISON'S Clinical Methods.
c. Recommended Books	ILO Encyclopedia.

d. Periodicals, Web Sites, ... , etc.	http://www.cdc.gov/NIOSH http://www.osha.gov www.pubmed.com www.bmed-online.com http://emedicine.medscape.com
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Course instructor : Prof. Dr. Nabil Hafez

Head of Department : Prof Dr. Ahmed Hafez

Date : 12/10/2014