كلية الطب

Faculty of Medicine

MINIA UNIVERSITY

Doctoral degree (MD)*Program*

& Courses' Specifications of

Occupational Medicine

نموذج رقم (١٣)

Program Specifications for MD of Occupational Medicine

(202٣)

University: Minia

Faculty(s): Medicine

Department: Public health and occupational medicine

A- Basic Information:

1- **Program title:** doctoral Degree in occupational medicine Medicine, **Code: IN 100**
2- **Final award:** doctoral Degree in occupational medicine
3- Program type: **Single** ☐ √ Double ☐ Multiple ☐

4-Department responsible for offering the degree: Department of Public health and occupational medicine

1. **5-Departments involved in the program:** public health & occupational Medicine, chest diseases, dermatological diseases

6-Program duration: 3.5 years

7-Number of program courses: five
8-Coordinator: Dr Shimaa Mahmoud, Dr Christina Mounir
9-External evaluators:dr Hussein hassan
10-Programme management team: Assistant Professor: Shaimma Anwar, Assistant lecturers: Shaza Fadel, Hager Adel, Aya Mohammed, Demonstrator: Myada Noor

B- Professional Information:

1- Program aims:

Graduate of Doctoral Degree in Occupational Medicine the candidate should be able to:

1.1. Graduates of the programs will have acquired the knowledge and skills needed to practice occupational medicine in the occupational health facilities of the government and in the community.
1.2. Develop a postgraduate student who will be able to take leadership in the field of Occupational Medicine by applying the scientific knowledge and skills learned.
1.3. Proficient in the knowledge and skills required to practice occupational medicine.
1.4. Demonstrate a satisfactory level of awareness as regards to recent visions and updates
1.5. Identify and solve problems in the field of Occupational Medicine
1.6. Applying ethical principles of scientific research with good awareness about patient's rights.
1.7. Acquire decision making capabilities in different situations
1.8. Show responsiveness to economics, and resource allocations
1.9. Function as supervisor, and trainer in relation to colleagues, medical students and other health professions.
1.10. Show appropriate attitudes and professionalism
1.11. Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning
1.12. To introduce candidates to the basics of scientific medical research.
1.13. To provide the candidates with MD degree:
- Enabling them to start professional careers as specialists in Egypt.
- Making them recognized as specialists abroad.
- Enabling them to pursue higher studies and subspecialties.
- Enabling them to understand and get the best of published scientific research and do their own.

2- Intended learning outcomes (ILOs)

2.1. (a) Knowledge and understanding:

By the end of the study of doctoral program in **Occupational Medicine** the candidate should be able to:

A.1. Define theories, basics and updated sciences in Occupational Medicine
A.2. Identify effect between professional practice in Occupational Medicine and its impact on the environment
A.3 Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to occupational and environmental medicine.
A.4. Mention the basic ethical and medicolegal principles relevant to the occupational and environmental medicine.
A.5. Identify the basics of quality assurance to ensure good clinical care in the field of practice.
A.6. Identify the basics, methodology and ethical issue of scientific research.
A.7. Mention essential facts of clinically supportive sciences including Occupational chest diseases, Occupational dermatology, Audiology and Clinical toxicology In addition to Basic of Internal Medicine related to occupational and environmental medicine.
A.8. Explain the essential facts and principles of relevant basic sciences including, Occupational Epidemiology, Biostatistics, sociology, industrial chemistry and Environmental, human physiology related to occupational and environmental medicine.
A.9. Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to occupational and environmental medicine.
A.10 State the impact of common health problems in the field of occupational and environmental medicine on the society.

2.2. (b)Intellectual skills

By the end of doctoral program in **Occupational Medicine** the candidate should be able to:

B.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the occupational and environmental medicine.

B.2 Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to occupational and environmental medicine.
B.3 Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the occupational and environmental medicine field.
B.4 Compute research studies (thesis) that add to knowledge
B.5. Outline and solve risk in professional practices in this area
B.6. Sketch the principles and fundamentals of quality assurance of professional practice
B.7. Operate training for being able to decision-making in a variety of professional situations
B.8. Formulate management plans and alternative decisions in different situations in the field of the occupational and environmental medicine.

2.3. Skills:

2.3.1. (c)Professional and practical skills

By the end of the study of doctoral program in **Occupational Medicine** the candidate should be able to:

C.1. Obtain proper history and examine patients in caring and respectful behaviors.
C.2. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to occupational and environmental medicine.
C.3. Carry out patient management plans for common conditions related to occupational and environmental medicine.
C.4. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)

C.5. Use information technology to support patient care decisions and patient education in common clinical situations related to occupational and environmental medicine.

C.6. Perform competently non invasive and invasive procedures considered essential for the occupational and environmental medicine.
C.7. Provide health care services aimed at preventing health problems related to occupational and environmental medicine.
C.8. Provide patient-focused care in common conditions related to occupational and environmental medicine, while working with health care professionals, including those from other disciplines

2.3.2. (d)General and transferable skills

By the end of the study of doctoral program in **Occupational Medicine** the candidate should be able to:

D.1. Facilitate learning of students and other health care professionals including their evaluation and assessment, Interpersonal and Communication Skills
D.2. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.
D.3. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).
D.4. Appraises evidence from scientific studies
D.5. Apply the information technology (web sites, journals and digital libraries) to manage information, teaching and research
D.6. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society
D.7. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices
D.8. Work effectively with others as a member of a health care team or other professional group
D.9. Work effectively in relevant health care delivery settings and systems including good administrative and time management.
D.10. Prepare and integrate scientific activities as seminars, journal clubs, scientific meetings or conferences. Improve his practice through constant self-evaluation and life-long learning
D.11. Conduct epidemiological Studies and surveys.
D.12. Maintain therapeutic and ethically sound relationship with patients.
D.13. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.

D.14. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities
D.15. Practice cost-effective health care and resource allocation that does not compromise quality of care.
D.16. Assist patients in dealing with system complexities

3- Program Academic Reference Standards

- Faculty of medicine, Minia University adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty Council Decree No.6854, in its cession No.177 Dated: 18\5\2009). **{Annex 1}.**
- Faculty of medicine, Minia University has developed the academic standards (ARS) for Doctorate (MD) and approved in faculty Council decree No.7528, in its cession No.191, dated: 15\3\2010) and these standards (faculty ARS) have been updated and approved in faculty Council No.52/2 dated: 20/ 2 / 2023 **{Annex 2}**

-Then **Public health and preventive medicine department** has adopted these standards and developed the intended learning outcomes (ILOS) for **Doctorate program for MD** degree in occupational medicine and the date of program specifications 1st approval was by department council: 13-5-2013, last update of program specification approval by department council: 6-3-2023

4. Program External References

- Minia faculty of medicine adopted the standards provided by "Accreditation council for graduate Medical Education" (http: acgme.org). (Date and NO. of faculty council approval).

- Comparison between ARS of doctoral program in Occupational medicine & External benchmarks. **{Annex 3}.**

5. Program Structure and Contents:

5. A. Program duration:
First Part :6 months
Second Part: > 18 months

5. B. Program structure:

- No of hours/week:

1st part: **Credit Hours: 2hours per week**
Lecture: 1hours/week
Practical: 1/week

Second Part:
>24 months
Credit Hours: 18 hours **per week for 15 week**
Lecture: 12 per week
Practical: 6 per week

- Basic sciences (compulsory) courses: No:2 Percentage %:33.3
- Basic sciences (optional) courses: No:0 Percentage %:0
- Specific courses related to the specialty: No:3 Percentage %:66.7
- Other courses: No:… Percentage %:…
- Training programs and workshops, field visits, seminars & other scientific activities: Distributed along the whole program.

5. C. Levels of program in credit hours system: Not applicable

5. D. Program courses:
N.B. {Courses' specifications are present in Annex 4} & {Correlations of Program ILOs with courses are present in Annex 5}.

Course Title		Total No. of	No. of hours /week			Program ILOs Covered
			Lect.	Practic	tutorial	
FIRST PART (Level of course):						
1-Course name: research methodology	Code No. of course IN 100	45	1	1		A4,A5,A6,A8,B6,D2, D3,D4,D7,D8,D11
2-Course name Computer& biostatistics	Code No. of course IN 100	30	1	1		B4,C4,C5,D1,D2,D5, D6,D10,D13
Training programs and workshops, field visits, seminars& other scientific activities		Continuous				
SECOND PART (Level of course):						

1. 1. Course name: Occupational& industrial medicine	Code No. of course IN 100	270	12	6		A1,A2,A3,A4,A5,A7, A8,A9,A10 B1,,B2,B3,B5,B6,B7, B8,C2,C3,C4,C6,C7, C8,D12,D14,,D15,D16
2. Occupational ling diseases,				2		A7,A8,B3,B5,B6,B8, C1,C2,C3,C4,D12
3. occupational skin diseases				2		A7,A8,B3,B5,B6,B8, C1,C2,C3,C4,D12
Training programs and workshops, field visits, seminars& other scientific		Continuous				

6- Program admission requirements:

1. General requirements:

A. Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or
2. Equivalent degree from medical schools abroad approved by the ministry of higher education
3. master degree in occupational medicine

C. Follows postgraduate regulatory rules of Minia faculty of medicine.

2. Specific requirements:

A. Candidates graduated from Egyptian universities should "Good Rank" in their final year/cumulative years examination and grade "Good Rank "in pathology course too.

B-Master degree in occupational Medicine with at least" Good Rank".

c. Candidate should know how to speak and write English well.

d. Candidate should have computer skills.

7- Regulations for progression and program completion:

Duration of program is 3.5years, starting from registration till the second part exam then thesis discussion ; divided to:

First Part: (≥6 months):

- All courses as specified in the internal bylaw
- Registration for Doctorate degree in October every year

•At least six months after registration of MD degree should pass before the student can ask for examination in the 1st part.

•Two sets of exams: 1st in April — 2nd in October.

• For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.

•Those who fail in one curriculum need to re-exam it only.

Second Part: (≥24months):

- Program related specialized Courses.
- At least 24 months after passing the 1st part should pass before the student can
- ask for examination in the 2nd part.
- Fulfilment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:
  a) Training courses
  b) Seminars
  c) Thesis discussion
  d) Workshops
  e) Conference attendance
  f) Journal club
  g) Other scientific activities requested by the department
- Two sets of exams: 1st in April— 2nd in October.
- At least 60 % of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Thesis/essay: (≥12 months):

. Thesis protocol registration is accepted after passing 18 months from registration of MD degree, and 1 year from passing 1st part exam.

- Thesis work Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, and after passing of at least 24 months (2 years) after documentation of the subject of the thesis.
- Accepting the thesis occurs after publishing two-thesis based papers in both local, international journals, then thesis discussion and this is enough to pass this part.

Teaching and learning methods	The assessed ILOs
• **Lectures**	A1,A2,A3,A4,A5,A6,A7,A8,A9,A10B 1,B2,B3,B4,B5,B6,B7,B8
• **Practical sessions**	**C1,C2,C3,C4,C5,C6,C7,C8**
• **Self-training activities** • **seminars, presentations and assignments.** • **raining courses & workshops.** • **hesis discussion.** • **Conference attendance**	D1,D2,D3,D4,D5,D6,D7,D8,D9,D`10,D 11,D12,D13,D14,D15,D16

8-Methods of student assessment:

Method of assessment	The assessed ILOs
1. **Research (Thesis)**	**A1,A2,A3,A4,A5,A6,A7,A8,A9,A10B1,B2,B3,B4,B5,B6, B7,B8 C1,C2,C3,C4,C5,C6,C7,C8**

	D1,D2,D3,D4,D5,D6,D7,D8,D9,D`10,D11,D12,D13,D14, D15,D16
2. Written Exams: • Short essay • MCQs • Complete • True or false and correct the wrong • Commentary • Problem solving	**A1,A2,A3,A4,A5,A6,A7,A8,A9,A10B1,B2,B3,B4 ,B5,B6,B7,B8**
3. Practical/Clinical Exams	**C1,C2,C3,C4,C5,C6,C7,C8**
4. Seminars, presentations, assignments	**D1,D2,D3,D4,D5,D6,D7,D8,D9,D`10,D11,D12,D13,D14, D15,D16**
5. Oral Exams	**D1,D2,D3,D4,D5,D6,D7,D8,D9,D`10,D11,D12,D13,D14, D15,D16**
6. Others (Please specify)	

Weighing of assessment:

It is mandatory to pass all the papers of written exams separately

Course	written	oral	Practical	Total
research methodology	**100%**	**100%**	**100%**	**100%**
Computer& biostatistics	**100%**	**100%**	**100%**	**100%**
Occupational& industrial	**100%**	**100%**	**100%**	**100%**

medicine				
Occupational ling diseases,	**100%**	**100%**	**100%**	**100%**
occupational skin diseases	**100%**	**100%**	**100%**	**100%**

9. Methods of Program Evaluation:

Evaluator (By whom)	Method/tool	Sample
1. **Senior students (Students of final years)**	Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSfsT7ZEB5-o1hQIsBvrklEw7ug4gI0r04TFAjlx3icAqHEhjg/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSdBv464Iegx0eS0UqiRxrOkrj8-5QEatKuXVSQh4bRPrzx4nA/viewform?usp=sf_link
2. **Graduates (Alumni)**	Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSe9BGEgUqLgkedqvQpCnY8xGMmw1JM9Qhh2g_LEE3gb3mlfoQ/viewform?usp=sf_link
3. **Stakeholders**	Meeting Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSf9nIiW9VRiLXBhKfbJ8LUPeWF27gbEh2ExrohmosY5-gylQA/viewform?usp=sf_link
4. **External & Internal evaluators and external examiners**	Reports	Attached to the file
5. **Quality Assurance Unit**	Reports Questionnaires Site visits	Attached to the file Attached to the file Attached to the file

- **Program Coordinators:**

Dr Shimaa Mahmoud
Dr Chrestina Mounir

- **Head of Department**:

  Dr Nashwa Nabil

Date of program specifications 1st approval by department council: 13/5/2013.
Date of last update & approval by department council: 6 /3 /2023

Annex (1): Comparison between General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

Annex (1):

Comparison between National Academic Quality Assurance & Accreditation **(NAQAAE)** General Academic Reference Standards **(GARS)** and Faculty Academic Reference Standards **(ARS).**

مصفوفه توافق المعايير القومية القياسية العامة لبرامج الدكتوراه مع المعايير الأكاديمية المعتمده من كليه الطب / جامعة المنيا لدرجه الدكتوراه فى طب الصناعات والصحة المهنية

Faculty Academic Reference Standards (ARS)

برامج الد كتوراه **NAQAAE**	**Faculty** **Doctorate (MD) Program**
1. مواصفات الخريج : خريج برنامج الدكتوراه في أي تخصص يجب أن يكون قادرا على :	**1. Graduate attributes:** Graduate of doctorate (MD) program in any specialty should be able to:
1.1. إتقان أساسيات ومنهجيات البحث العلمي .	1.1. Mastery of basic research skills and types of study design.
2.1. العمل المستمر علي الإضافة للمعارف في مجال التخصص.	1.2. Contribute to development, application, and translation of new medical knowledge in his scholarly field through research.

1.3. use analytical and critical skills in observing, collecting and interpreting data.	3.1. تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة.
1.4. Integrate biomedical sciences with clinical information to explore scientific basis of medical practice for improvement of management of diseases.	4.1. دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها.
1.5. Demonstrate an awareness of current health problems and recent theories in his scholarly field	5.1. إظهار وعيا عميقا بالمشاكل الجارية والنظريات الحديثة في مجال التخصص.
1.6. Identify and create solutions for occupational problems and medical malpractice conditions.	6.1. تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها.
1.7. perform a wide range of professional skills in his scholarly field.	7.1. إتقان نطاقا واسعا من المهارات المهنية في مجال التخصص

1.8. Develop and improve new methods and approaches in the professional medical practice of the specific field.	8.1. التوجه نحو تطوير طرق و أدوات و أساليب جديدة للمزاولة المهنية.
1.9. Use information technology to improve his professional medical practice including online medical information manage information and researches.	9.1. استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
1.10. communicate effectively as a member or leader of health care group or other professional group and gain leadership skills.	10.1. التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة.
1.11. Make informed decisions based on available data (e.g. patient information, up to date scientific evidence and clinical judgement).	11.1. اتخاذ القرار في ظل المعلومات المتاحة.

1.12. Effective management, development & improvement of available resources and have the competency to get new resources.	12.1.توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على إيجاد موارد جديدة.
1.13. Be aware of his community needs related to his field and have the ability to improve & maintain health care and carryout system-based improvement.	13.1.الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة.
1.14. Demonstrate ethical behavior, moral reasoning, honesty, integrity, dependability, and commitment to service and health equity.	14.1.التصرف ب ما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة.
1.15. Critically reflect on one's own performance to set learning and improving goals and sharing his knowledge.	1.15.الالتزام بالتنمية الذاتية المستمرة ونقل علمه و خبراته للآخرين.

Academic standards

2. المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for MD Programs	2. Faculty Academic Reference Standards (ARS) for MD Program
1.2. المعرفة والفهم: بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	2.1. Knowledge and understanding: Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:
1.1.2. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Theories, basics and updated knowledge in his scholarly field and related basic sciences.
2.1.2. أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	2.1.2. Basic, methods and ethics of medical research.
3.1.2. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1. 3. Ethical and medico legal principles of medical practice.
4.1.2. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1. 4. Identify Principles and fundamental of quality in professional medical practice.
5.1.2. المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.

2.2. Intellectual skills: Upon completion of the doctorate program (MD), the graduate must be able to:	**2.2. المهارات الذهنية:** **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**
2.2.1 Analysis and evaluation of information to correlate and deduce from it.	1.2.2. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها
2.2.2. Problem solving skills based on analysis of available data for common health problems related to his scholarly field.	2.2.2. حل المشاكل المتخصصة استنادا على المعطيات المتاحة
2.2.3. Carryout research projects related to his scholarly field.	3.2.2. إجراء دراسات بحثية تضيف إلى المعارف
2.2.4. Write and publish scientific papers.	4.2.2. صياغة أوراق علمية
2.2.5. Assess risk in professional medical practice.	5.2.2. تقييم المخاطر في الممارسات المهنية
2.2.6. Establish goals, commitments and strategies for improved productivity and performance.	6.2.2. التخطيط لتطوير الأداء في مجال التخصص
2.2.7. Making professional decisions in different professional contexts.	7.2.2. اتخاذ القرارات المهنية في سياقات مهنية مختلفة
2.2.8. Demonstrate intellectual curiosity necessary for scientific discovery and innovation through active participation in research.	8.2.2. الابتكار/ الإبداع
2.2.9. Using Evidence-based strategies to during discussion or teaching others.	9.2.2. الحوار والنقاش المبني على البراهين والأدلة

2.3. Professional skills: Upon completion of the doctorate program (MD), the graduate must be able to:	**3.2. مهارات المهنية:** **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**
2.3.1. Master the basic as well as modern professional practical and/or clinical skills.	1.3.2. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص
2.3.2. Write and evaluate professional reports.	2.3.2 . كتابة وتقييم التقارير المهنية
2.3.3. Evaluate and improve the methods and tools in the specific field	2.3.3 . تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص
2.3.4. use of technological means to serve Professional practice	4.3.2. استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية
2.3.5. Planning for the development of professional practice and improve of the performance of others	2.3.5. التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين.
2.4. General and transferable skills Upon completion of the doctorate program (MD), the graduate must be able to:	**4.2. المهارات العامة والمنتقلة:** **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**
2.4.1. Communicate (in writing and orally) effectively and respectfully with peers, faculty, colleagues, and other members of the health care team, understanding the role of consultations and referrals.	1.4.2. التواصل الفعال بأنواعه المختلفة
2.4.2. Use of information technology to serve Professional Practice Development.	2.4.2. استخدام تكنولوجيا المعلومات ب ما يخدم تطوير الممارسة المهنية

3.4.2. تعليم الآخرين وتقييم أداءهم	2.4.3. Demonstrate effective teaching and evaluating others.
.4.2.4. التقييم الذاتي والتعلم المستمر.	2.4.4. Self-assessment and continuous learning.
5.4.2. استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	2.4.5. use physical information resources (print, analog), online (electronic, digital,) text, audio-video, book and journal to address medical questions and knowledge to sustain professional growth
6.4.2. العمل في فريق وقيادة فرق العمل	2.4.6. Work as a member in larger teams and as well as a team leader knows how to develop "teaming strategy" to plan how people will act and work together.
7...4.2 إدارة اللقاءات العلمية والقدرة علي إدارة الوقت	2.4.7. Manage of scientific meetings and the ability to manage Time effectively.

ANNEX II: Comparison between NAQAAE , Faculty ARS and Program ILOs of occupational medicine

2 :المعايير القياسية العامة . **NAQAAE General Academic Reference Standards "GARS" for MD Programs**	**2. Faculty Academic Reference Standards (ARS) for MD Program**	**3-Program ILOS**
2.1. المعرفة والفهم: **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:**	**2.1. Knowledge and understanding:** Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:	**2.1. Knowledge and understanding:** Upon completion of **the doctorate of occupational medicine** the graduate should be able to :
2.1.1 . النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Theories, basics and updated knowledge in his scholarly field and related basic sciences.	A1Define theories, basics and updated sciences in Occupational Medicine A.7. Mention essential facts of clinically supportive sciences including Occupational chest diseases, Occupational dermatology, Audiology and Clinical toxicology In addition to Basic of Internal Medicine related to occupational and environmental medicine. A.8. Explain the essential facts and principles of relevant basic sciences including, Occupational Epidemiology, Biostatistics, sociology, industrial chemistry and Environmental, human physiology related to occupational and environmental medicine. A.9. Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to occupational and environmental medicine.
2.1.2 . أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	2.1.2. Basic, methods and ethics of medical research.	A.6. Identify the basics, methodology and ethical issue of scientific research.

2.1.3 . المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1. 3. Ethical and medico legal principles of medical practice.	A.4. Mention the basic ethical and medicolegal principles relevant to the occupational and environmental medicine.
2.1.4 . مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1. 4. Identify Principles and fundamental of quality in professional medical practice.	A.5. Identify the basics of quality assurance to ensure good clinical care in the field of practice. A.3 Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to occupational and environmental medicine.
2.1.5 . المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.	A.10 State the impact of common health problems in the field of occupational and environmental medicine on the society. A.2. Identify effect between professional practice in Occupational Medicine and its impact on the environment
2.2 . المهارات الذهنية: **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**	**2.2. Intellectual skills:** Upon completion of the doctorate program (MD), the graduate must be able to:	**2.2. Intellectual skills:** Upon completion of **the doctorate Program of occupational medicine** the graduate should be able to :

2.2.1 .تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها	2.2.1 Analysis and evaluation of information to correlate and deduce from it.	B.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the occupational and environmental medicine.
2.2.2 . حل المشاكل المتخصصة استنادا على المعطيات المتاحة	2.2.2. Problem solving skills based on analysis of available data for common health problems related to his scholarly field.	B.2 Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to occupational and environmental medicine.

2.2.3 . إجراء دراسات بحثية تضيف إلى المعارف	2.2.3. Carryout research projects related to his scholarly field.	B.4 Compute research studies (thesis) that add to knowledge
2.2.4 . صياغة أوراق علمية	2.2.4. Write and publish scientific papers.	B.4 Compute research studies (thesis) that add to knowledge
2.2.5 . تقييم المخاطر في الممارسات المهنية	2.2.5. Assess risk in professional medical practice.	B.5. Outline and solve risk in professional practices in this area
2.2.6 . التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments and strategies for improved productivity and performance.	B.6. Sketch the principles and fundamentals of quality assurance of professional practice
2.2.7 . اتخاذ القرارات المهنية في سياقات مهنية مختلفة	2.2.7. Making professional decisions in different professional contexts.	B.8. Formulate management plans and alternative decisions in different situations in the field of the occupational and environmental medicine.
2.2.8 . الابتكار/ الإبداع	2.2.8. Demonstrate intellectual curiosity necessary for scientific discovery and innovation through active participation in research.	B.7. Operate training for being able to decision-making in a variety of professional situations
2.2.9 . الحوار والنقاش المبني على البراهين والأدلة	2.2.9. Using Evidence-based strategies to during discussion or teaching others.	B.3 Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the occupational and environmental medicine field.
2.3 . مهارات المهنية: بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	**2.3. Professional skills:** Upon completion of the doctorate program (MD), the graduate must be able to:	**2.3Professional skills:** Upon completion of **the doctorate Program of occupational medicine** the graduate should be able to :
2.3.1 . إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	2.3.1. Master the basic as well as modern professional practical and/or clinical skills.	C.1. Obtain proper history and examine patients in caring and respectful behaviors. C.2. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-

		date scientific evidence, and clinical judgment for common conditions related to occupational and environmental medicine. C.3. Carry out patient management plans for common conditions related to occupational and environmental medicine. C.7. Provide health care services aimed at preventing health problems related to occupational and environmental medicine. C.8. Provide patient-focused care in common conditions related to occupational and environmental medicine, while working with health care professionals, including those from other disciplines

2.3. 2 كتابة وتقييم التقارير المهنية .	2.3.2. Write and evaluate professional reports.	C.4. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)
3.3. 2 تقييم وتطوير الطرق والأدوات . القائمة في مجال التخصص	2.3.3. Evaluate and improve the methods and tools in the specific field	C.6. Perform competently non invasive and invasive procedures considered essential for the occupational and environmental medicine
2.3.4 استخدام الوسائل التكنولوجية بما . يخدم الممارسة المهنية	2.3.4. use of technological means to serve Professional practice	C.5. Use information technology to support patient care decisions and patient education in common clinical situations related to occupational and environmental medicine.
2.3.2.5. التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين.	2.3.5. Planning for the development of professional practice and improve of the performance of others	C.6. Perform competently non invasive and invasive procedures considered essential for the occupational and environmental medicine

2.4 المهارات العامة والمنتقلة: . **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**	**2.4. General and transferable skills** Upon completion of the doctorate program (MD), the graduate must be able to:	**2.4. General and transferable skills** Upon completion of the doctorate program (MD), the graduate must be able to:
2.4.1 التواصل الفعال بأنواعه المختلفة .	2.4.1. Communicate (in writing and orally) effectively and respectfully with peers, faculty, colleagues, and other members of the health care team, understanding the role of consultations and referrals.	D.1. Facilitate learning of students and other health care professionals including their evaluation and assessment, Interpersonal and Communication Skills D.6. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society D.11. Conduct epidemiological Studies and surveys. .D.13. Elicit information using effective nonverbal, explanatory, questioning, and writing skills. D.14. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities D.15. Practice cost-effective health care and resource allocation that does not compromise quality of care. D.16. Assist patients in dealing with system complexities
2.4.2 استخدام تكنولوجيا المعلومات ب ما . يخدم تطوير الممارسة المهنية	2.4.2. Use of information technology to serve Professional Practice Development.	.5. Apply the information technology (web sites, journals and digital libraries) to manage information, teaching and research
2.4.3 تعليم الآخرين وتقييم أداءهم .	2.4.3. Demonstrate effective teaching and evaluating others.	D.1. Facilitate learning of students and other health care professionals including their evaluation and assessment, Interpersonal and Communication Skills
4.2.4. التقييم الذاتي والتعلم المستمر..	2.4.4. Self-assessment and continuous learning.	D.7. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent,

		business practices
2.4.5 استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	2.4.5. use physical information resources (print, analog), online (electronic, digital,) text, audio-video, book and journal to address medical questions and knowledge to sustain professional growth	D.2. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education. D.3. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks). D.4. Appraises evidence from scientific studies
2.4.6 العمل في فريق وقيادة فرق العمل .	2.4.6. Work as a member in larger teams and as well as a team leader knows how to develop "teaming strategy" to plan how people will act and work together.	D.8. Work effectively with others as a member of a health care team or other professional group
2.4. 7.. إدارة اللقاءات العلمية والقدرة علي إدارة الوقت	2.4.7. Manage of scientific meetings and the ability to manage Time effectively.	D.10. Prepare and integrate scientific activities as seminars, journal clubs, scientific meetings or conferences. Improve his practice through constant self-evaluation and life-long learning D.9. Work effectively in relevant health care delivery settings and systems including good administrative and time management

Annex 5

نموذج رقم (١١ب)

مسمى البرنامج	MD occupational medicine
كود البرنامج	**IN 200**

جامعة/أكاديمية :.جامعة المنيا.....

كلية / معهد :كلية الطب.....

قسم:الهستولوجي وبيولوجيا الخلية....

Matrix of Coverage of MSC Program ILOs By Course

Courses **(List of courses in 1st and 2nd parts)**	**Program Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
research methodology	A4,A5, A6,A8	**B6**		D2,D3,D4,D7,D8,D11
Computer& biostatistics		**B4**	C4,C5	D1,D2,D5,D6,D10,D13
Occupational& industrial medicine	A1,A2, A3,A4, A5,A7, A8,A9, A10	B1,,B2,B3,B5,B6, B7,B8	C2,C3,C4, C6,C7,C8	D12,D14,,D15, D16
Occupational ling diseases,	A7,A8	B3,B5,B6,B8	,C1,C2,C3 ,C4	**D12**
occupational skin diseases	A7,A8	B3,B5,B6,B8	C1,C2,C3, C4	**D12**
Thesis			C1 to C8	**D1 to D16**

B.Matrix of Coverage of Course ILOs by Methods of teaching and learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2,A3,A4,A5,A6,A7,A8,A9,A10	B1,B2,B3,B4,B5,B6,B7,B8		
Practical			C1,C2,C3,C4,C5,C6,C7,C8	
Presentation/seminar Journal club Thesis discussion Training courses & workshops				D1,D2,D3,D4,D5,D6,D7,D8,D9,D`10,D11,D12,D13,D14,D15,D16

C. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Research (Thesis)	A1-A10	B1-B8	C1-C8	D1-D16
Written exam	A1-A10	B1-B8		
Practical exam			C1-C8	
Oral Exam				D1-D16
Seminars, presentations, Assignments, Logbook assessment				D1-D16

Course specification of:

"Medical Statistics and Research Methodology"

In MD degree

University: Minia
Faculty: Medicine
Department offering the course: Public health and preventive medicine department
Department offering the programme: occupational medicine
Programme(s) on which the course is given: First part MD for all postgraduates
Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level: **First part MD**	Course Title: **Medical Statistics and Research Methodology**	Code: **IN 100**
Number of teaching hours: - **Lectures:** 30 hours - **Practical/clinical:** 15 hours - **Total:** 45 hours		
2. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision making skills. 2. Apply ethical principles of scientific research with good awareness about patient´s rights. 3. Use precisely the research methodology in researches 4. Influence the students to adopt an analytical thinking for evidence-based medicine 5. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data 6. To use precisely computer programs SPSS, Epi Info and Excel in data analysis	
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A. Knowledge and understanding	A.1. Define terms of research methodology . A.2. Describe the spectrum of research methodology .	

	A.3. Explain tie strategies and design of research . A.4. Describe the study design, uses, and limitations . A.5. Explain evidence-based Medicine A.6. Define causation and association . A.7. Tell the principles and fundamentals of ethics. A.8. Describe the different sampling strategies A.9. Summarize the advantages and disadvantages of different sampling strategies A.10. Summarize different methods of samples size calculation A.11. Recognize the sources and the recent methods in data collection and analysis. A.12. Identify the types of variables A.13. Identify types of tabular and graphic presentation of data A.14. Describe the normal curves and its uses A.15. Identify the characters of normal distribution curve A.16. Identify measures of central tendency and measures of dispersion A.17. Explain regression analysis, its use and differentiate its types A.18. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests A.19. Explain the usefulness of screening tests
B. Intellectual Skills	B.l. Apply research methods to different community health problems. B.2. Apply appropriate research strategies for use . B.3. Select appropriate research methods . B.4. Teach and advocate appropriately in the research design. B.5. Describe the normal curves B.6. Describe and summarize data B.7. Select the proper test of significance for a specific data. B.8. Interpret selected tests of significance and the inferences obtained from such tests
C. Professional and Practical Skills	C.1. Plan a research proposal for community diagnosis. C.2. Design questionnaires.

	C.3. Conduct research. C.4. Judge association and causation. C.5. Criticize for bias and confounding factors C.6. Design data entry file C.7. Validate data entry C.8. Manage data files C.9. Construct tables and graphs C.10. Calculate different samples sizes C.11. Calculate measures of central tendency and measures of dispersion C.12. Calculate sensitivity, specificity, and predictive values
D. General and transferable Skills	D.l. Lead a research team to conduct a specific study . D.2. Take part and work coherently with his associates to in research. D.3. Write scientific papers. D.4. Appraise scientific evidence D.5. Analyze and interpret data D.6. Use standard computer programs for statistical analysis effectively

4. Course Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Research methods			
Introduction : - Introduction to research. - Terminology and Rationale - Originality		3	
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		4	
- Sources of Errors in Medical Research **- Bias and confounding and its Control.**		3	
- Validity and reliability		2	
- The questionnaire design		2	
- Writing the Research Paper or Manuscript **- Protocol Writing**		2	2
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	

Statistics			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		**30**	**15**

5. Teaching and Learning Methods	**Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online** **Online learning materials are available at Minia University site** ▪ Lectures: Face to face lectures, Pre-recorded video lectures ▪ Practical lessons ▪ Assignment ▪ Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	• Outstanding student rewarded certificate of appreciation due to high level of achievement • Limited students divided into small group to make learning more effective
7. Student Assessment	
D. Student Assessment Methods	7.1- **Research assignment:** to assess general transferable skills, intellectual skills. 7.2- **Written exams:** • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. 7.3- **Practical Exams:** to assess practical skills, intellectual skills. 7.4- **Oral Exams:** Oral exams to assess knowledge and understanding, attitude, communication 7.5- **Structured oral exams:** to assess knowledge.
E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
F. Weighting of Each Method of Assessment	- Final Written Examination 100%

	- Oral Examination 100% - Practical Examination 100% - Total 100%
8- List of References	
A. Course Notes/handouts	- Department notes, lectures and handouts
B. Essential Books	- The Lancet Handbook of Essential Concepts in Clinical Research
C. Recommended Textbooks	***Research methods:*** - **Introducing Research Methodology**; A Beginner's Guide to Doing a Research Project - **Understanding Clinical Research**, Renato Lopes and Robert Harrington; ISBN-10: 0071746781 | ISBN-13: 978-0071746786 - **Users' guides to the medical literature: a manual for evidence-based clinical practice:** Guyatt, G., D. Rennie, M. Meade and D. Cook (2002), AMA press Chicago. - **Research Methods in Community Medicine:** Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition Joseph Abramson, Z. H. Abramson ***Computer:*** - Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage. - Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd EditionEveritt, Brian S. - Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021. - Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley & Sons, 2019. - Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd , ed., Philadelphia
D. Periodicals, websites	- https://phrp.nihtraining.com/users/login.php - http://www.jhsph.edu/ - Journal of Biomedical Education - https://lagunita.stanford.edu/courses/Medicine/MedStats-SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEqqUjLjk8TCR7lzPdnpGqwin06L-GjFq32a62w3j6R5s9c

Test blueprint for Research methodology course

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Research							
Introduction: - Introduction to research. - Terminology and Rationale - Originality	3	10%	5	4	1	7%	5%
- Study design	4	13.3%	8	3	5	17%	17%
- Sources of Errors in Medical Research - Bias and confounding and its Control.	3	10%	4	2	2	13%	10%
- Validity and reliability	2	6.67%	3	2	1	7%	5%
- The questionnaire design	2	6.67%	3	1	2	5%	5%
- Writing the Research Paper or Manuscript - Protocol Writing	2	6.67%	4	1	3	13%	10%
- Critic technique for the literature review	2	6.67%	2	1	1	7%	5%
- Association and causation	1	3.33%	3	2	1	7%	8%
- Evidence -based approach in medical practice	2	6.67%	1	1		3%	5%
- Ethics of medical research	2	6.67%	2	2		3%	6%
Statistics							
Sampling	1	3.33%	2	1	1	4%	4%
Introduction to Sample Size Calculation	1	3.33%	1	1		2%	2%
Data presentation	1	3.33%	3	2	1	5%	4%
Tests of significance	2	6.67%	2	1	1	8%	8%
Introduction to SPSS	1	3.33%	1	1		3%	3%
Screening	1	3.33%	2	1	1	3%	3%
Total	**30**	**100%**					**100%**

- **Course Coordinators:**
  - ➢ Coordinators:

  Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud
  Assistant Coordinator: Assis .lecturer Shaza Fadel
  Head of Department: Professor Dr. Nashwa Nabil Kamal

Date of last update & approval by department council: 6 / 3 / 2023

نموذج رقم (١١)

Medical Statistics and Research Methodology	**مسمى المقرر**
IN100	**كود المقرر**

جامعة/أكاديمية : المنيا
كلية / معهد: الطب
قسم: الصحة العامة والطب الوقائي

Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Week No.**	**Intended Learning Outcomes (ILOs)**			
		A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
		A	**B**	**C**	**D**
Introduction : - Introduction to research. - Terminology and Rationale - Originality		A.1, A.2,			
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		A.3, A.4,	B.l, B.2, B.3, B.4,	C.1,	
- Sources of Errors in Medical Research **- Bias and confounding and its Control.**			B.3,	C.5	
- Validity and reliability					
- The questionnaire design				C.2,	
- Writing the Research Paper or Manuscript **- Protocol Writing**			B.3,	C.3,	D.1, D.2, D.3
- Critic technique for the literature review					
- Association and causation		A.6,		C.4,	
- Evidence -based		A.5,			

approach in medical practice					
- Ethics of medical research		A.7			
Statistics					
Sampling		A.8, A.9, A.11			D.4
Introduction to Sample Size Calculation		A.10		C.10	D.4
Data presentation		A.13, A.14	B.6	C.9	D.4
Tests of significance		A.15, A16	B.5	C.11	D.4
Introduction to SPSS		A.12	B.6	C.6, C7, C8	D.5, D.6
Proportion test		A.11	B.7, B8		D.5, D.6
Chi-square test		A.11	B.7, B8		D.5, D.6
Student T test, Paired T test		A.11	B.7, B8		D.5, D.6
ANOVA test		A.11	B.7, B8		D.5, D.6
Correlation (simple and multiple)		A.11	B.7, B8		D.5, D.6
Regression		A.17	B.7, B8		D.5, D.6
Screening		A.18, A.19	B.7, B8	C.12	D.4

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Lecture	A.1, A.2, A.3, A.4, A.5, A.6, A.7 , A.8,A9,A10,A11,A12,A13 A.14, A.15, A.16,A17, A.18	B.1, B.2, B.3, B.4, B5,B.6, B.7, B.8		
Practical			C1, C.3, C4, C.5, C.6, C.7, C.8. C.9, C.10, C11,C.12	
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8, C.9, C.10, C.12	D.1, D.2., D.4, D.5, D.6

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written paper based exam	A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.14, A.15, A16, A18	B.3, B.5,		
Practical exam (Statistical exam)			C.1, C.2, C.5, C.6, C.7,C.8, C.9, C.10, C.11, C.12	
Oral exam	A.10, A11, A.12, A13, A.15, A.16, A.17, A18	B.1, B.2, B.6, B.7, B.8		D.1, D.2, D.5, D.6

- **Course Coordinators:**

➢ **Coordinators:**

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud
Assistant Coordinator: Assis .lecturer Shaza Fadel
Head of Department:
Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6 / 3 / 2023

Course specification of :

"Use of Computer in Medicine"
in MD degree

University: Minia
Faculty: Medicine
Department offering the course: Public health and preventive medicine department
Department offering the programme: Occupational medicine
Programme(s) on which the course is given: First part MD for all postgraduates
Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level: **First part MD**	Course Title: **Use of Computer in Medicine**	Code: **IN 100**
• **Number of teaching hours:** - **Lectures:** 20 hours - **Practical/clinical:** 10 hours - **Total:** 30 hours		
2. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Recognize knowledge about the software and their applications in Medicine 2. Gain skills necessary for using and managing heath care information systems	
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A. Knowledge and understanding	A.1. Define each part of computer hardware and its function A.2. Have a basic understanding of various computer applications in medicine - for instruction, information managing, and computer based medical record, etc. A.3. Define telemedicine and its importance A.4. Recognize importance of health information technology in improvement of healthcare A.5. Describe electronic medical records and obstacles facing it A.6. Identify the concept of big data analysis	
B. Intellectual Skills	B.1. Criticize adoption of telemedicine B.2. Discover factors constraining adoption of telemedicine	
C. Professional and Practical Skills	C.1. Design framework for understanding of health information system performance	
D. General and transferable Skills	D.1. Utilize computers in conducting research D.2. Appraise adoption of telemedicine D.3. Discover skills to carry out the process of improving health information system performance	

4. Course Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Use of Computer in Medicine			
General concepts Introduction to Microsoft PowerPoint	6	4	2
Health Information Systems (HIS)	6	4	2
Telemedicine	6	4	2
Software Used in the Health Care	6	4	2
Big Data Analysis in Health	6	4	2
Total	**30**	**20**	**10**

5. Teaching and Learning Methods	**Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online** **Online learning materials are available at Minia University site** ▪ Lectures: Face to face lectures, Pre-recorded video lectures ▪ Practical lessons ▪ Assignment ▪ Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	• Outstanding student rewarded certificate of appreciation due to high level of achievement • Limited students divided into small group to make learning more effective

7. Student Assessment

A. Student Assessment Methods	7.1- **Research assignment:** to assess general transferable skills, intellectual skills. 7.2- **Written exams:** • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. 7.3- **Practical Exams:** to assess practical skills, intellectual skills. 7.4- **Oral Exams:** Oral exams to assess knowledge and understanding, attitude, communication 7.5- **Structured oral exams:** to assess knowledge.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
C. Weighting of Each Method of Assessment	Final Written Examination 100% Oral Examination 100% Practical Examination 100% Total 100%

8. List of References

A. Course Notes/handouts	Department notes, lectures and handouts

B. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition
C. Recommended Textbooks	Data Management and Analytics for Medicine and Healthcare: Begoli, Edmon, Fusheng Wang, and Gang Luo. Springer, 2017.
D. Periodicals, websites	- National Institutes of Health: http://www.nih.gov - American Medical Informatics Association: http://www.amia.org/

Test blueprint for Uses of computer in Medicine course

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (Percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Use of Computer in Medicine							
General concepts Introduction to Microsoft PowerPoint	4	20%	6	4	2	30%	30%
Health Information Systems (HIS)	4	20%	4	4		20%	15%
Telemedicine	4	20%	6	2	4	25%	30%
Software Used in the Health Care	4	20%	5	4	1	20%	15%
Big Data Analysis in Health	4	20%	1	1		5%	10%
Total	20	100%	20			100%	100%

- **Course Coordinators:**
  - ➢ **Coordinators:**
  1) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir
  ٢**)Assistant coordinator: Assistant lecture Shaza Fadel**
- **Head of Department**:
  Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by <u>department council</u>: 13 /5/2013.

Date of <u>last update</u> & approval by <u>department council</u>: 6/ 3 / 2023

نموذج رقم (١١)

أكاديمية :المنيا/جامعة

معهد: الطب / كلية

الوقائي قسم: الصحة العامة والطب

Use of Computer in Medicine	**مسمى المقرر**
IN 100	**كود المقرر**

Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Week No.**	**Intended Learning Outcomes (ILOs)**			
		A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
		A	**B**	**C**	**D**
Use of Computer in Medicine					
General concepts Introduction to Microsoft PowerPoint		A.1, A.2,			D.1
Health Information Systems (HIS)		A.4, A.5		C1	D.3
Telemedicine		A.3	B.1, .2		D.2
Software Used in the Health Care		A.5, A.6			D.1
Big Data Analysis in Health		A.6			

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Lecture	A.1 to A.6	B.1,		
Practical			C1	
Assignment	A.4	B.2		D1.D.2,D3

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written paper based exam	A.1, to A.6	B.1		
Practical computer exam (For SPSS, PowerPoint)			C1	D.1
Oral Exam	A.4, A..6	B.2	C.1	D.2, D.3

- **Course Coordinators:**

➢ **Coordinators:**

2) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

٢)**Assistant coordinator: Assistant lecture Shaza Fadel**

- **Head of Department**:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

Course specification of :

"Occupational Medicine in Doctoral degree"

2023

University: Minia
Faculty: Medicine
Department: Community and Occupational Medicine

1. Course Information		
• **Academic Year/level:** 2nd part	• Course Title doctoral degree Occupational medicine	• **Code**:IN100
• *Number of teaching hours: 3 hours per week for 90 week* - *Lectures: 2 hours/week , total 180 hours* - **Practical/clinical:** 1 hours/week , total 90 hours		
2. Overall Aims of the course	*By the end of the course the student must be able to:* 1. Proficient in the knowledge and skills required to practice occupational medicine. 2. Graduates of the programs will have acquired the knowledge and skills needed to practice occupational medicine in the occupational health facilities of the government and in the community 3. To introduce candidates to the basics of scientific medical research. 4. To provide the candidates with MD degree: - Enabling them to start professional careers as specialists in Egypt. - Making them recognized as specialists abroad. - Enabling them to pursue higher studies and subspecialties.	

	- Enabling them to understand and get the best of published scientific research and do their own.
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	A1. Explain the essential facts and principles of relevant basic sciences including, Occupational Epidemiology, Biostatistics, sociology, industrial chemistry and Environmental, human physiology related to occupational and environmental medicine. A2. Mention essential facts of clinically supportive sciences including Occupational chest diseases, Occupational dermatology, Audiology and Clinical toxicology In addition to Basic of Internal Medicine related to occupational and environmental medicine. A3. Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to occupational and environmental medicine. A4. Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to occupational and environmental medicine. A5. Mention the basic ethical and medicolegal principles relevant to the occupational and environmental medicine. A5. Mention the basics of quality assurance to ensure good clinical care in the field of practice. A6. Mention the ethical and scientific principles of medical research. A7. State the impact of common health problems in the field of occupational and environmental medicine on the society.
B- Intellectual	B1. Correlate the facts of relevant basic and

Skills	clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the occupational and environmental medicine. B2. Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to occupational and environmental medicine. B3 Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the occupational and environmental medicine field. B4. Formulate management plans and alternative decisions in different situations in the field of the occupational and environmental medicine.
C- Professional and Practical Skills	C1. Obtain proper history and examine patients in caring and respectful behaviors. C2. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to occupational and environmental medicine. C3. Carry out patient management plans for common conditions related to occupational and environmental medicine. C4. Use information technology to support patient care decisions and patient education in common clinical 7 situations related to occupational and environmental medicine. C5. Perform competently non-invasive and invasive procedures considered essential for the occupational and environmental medicine.

	C6. Provide health care services aimed at preventing health problems related to occupational and environmental medicine. C7. Provide patient-focused care in common conditions related to occupational and environmental medicine, while working with health care professionals, including those from other disciplines C8. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)
D- General and transferable Skills	D1. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks). D2. Appraises evidence from scientific studies. D3. Conduct epidemiological Studies and surveys. D4. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education. D5. Facilitate learning of students and other health care professionals including their evaluation and assessment. D6. Maintain therapeutic and ethically sound relationship with patients. D7. Elicit information using effective nonverbal, explanatory, questioning, and writing skills. D8. Provide information using effective nonverbal, explanatory, questioning, and writing skills. D9. Work effectively with others as a member of a

	health care team or other professional group. D10. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society D11. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices D12. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities Systems-Based Practice D13. Work effectively in relevant health care delivery settings and systems including good administrative and time management. D14. Practice cost-effective health care and resource allocation that does not compromise quality of care. D15. Assist patients in dealing with system complexities

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
	(2h / week)	**(1 h / week)**	**(3 h / week)**
Occupational diseases of different body systems (lung, heart, kidney, …..)	**15**	**15**	**30**
Solvents and selected solvent effects Pesticides Special chemical exposures Metals Noxious Gases	60	30	90
Industrial process Health hazards and preventive measures	45	15	60
Total	180	90	270

5. Teaching and Learning Methods	12 hours of lectures / week 6 hours of practical training and demonstration / week *CLASSROOM TEACHING* **Frequently used teaching methods include:** 1- Interactive presentations (lectures with discussion) 2- Brainst orming 3- Discuss ions 4- Case studies 5- Clinica l simulations 6- Demon strations 7- Role plays *CLINICAL OR FIELD PRACTICE* After learning a new topic or skill during classroom teaching, students need opportunities to apply their new knowledge or practice new skills in a simulated or safe environment whenever possible. Simulated environments are places where students can work together in small groups, observe or participate in role plays, perform clinical simulations, watch videos, practice skills with anatomic models, or, if available, work on computers. Once students have practiced new skills in a simulated environment, they can then practice their skills in a supervised clinical or field practice site. Clinical practice sites may include health centers, outpatient clinics, hospitals, and other health care sites. Field practice sites might include nurseries, child care centers, faculties, workplaces, homes, or other settings within the community.

6. Teaching and Learning Methods for students with limited Capacity	
7. Student Assessment	
A. Student Assessment Methods	**1- Written exam to assess** the student's comprehension and understanding of the class work. **2- Oral exam to assess** student's intellectual and communication abilities regarding basic knowledge and understanding of the course topics. **3- Practical exam to assess** the student's ability to identify different topics of the course and how to write a report.
B. Assessment Schedule (Timing of Each Method of Assessment)	

Topic	Duration of written exam	Oral exam And Practical exam
Branches of industrial medicine	3	√
Branches of occupational and environmental medicine	3	√

C. Weighting of Each Method of Assessment	Written examination	100
	Oral& practical examination.	100
	Total	100%

8. List of References	
A. Course Notes/handouts	Department Books, and notes. Logbook
B. Essential Books	• Joseph ladou of occupational and environmental medicine 4th edition. • Mohamad Kamal ElSobky occupational and environmental medicine 1st edition 2014
C. Recommended Text Books	
D. Periodicals, websites	• Egyptian journal of occupational and environmental medicine • American journal of occupational and environmental medicine. • **www.cdc.gov** • **www.who.gov** • **www.osha.gov**

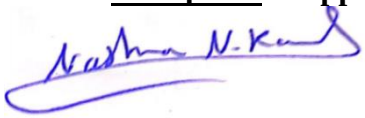
Blue print of occupational medicine

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (Percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Occupational Medicine							
Occupational diseases of different body systems	١٥	33.3	6	4	2	30%	30%
Solvents Pesticides 88 Special chemical exposures 0 Metals 144 Noxious Gases	٦٠	33.3	4	3	1	40%	40%
Industrial process Health hazards and preventive measures (4 per week)	٤٥	33.3	6	2	4	30%	30%
Total	١٨٠	100%	16			100%	100%

Program Coordinators:
Dr Shimaa Mahmoud
Dr Chrestina Mounir

Head of Department: Prof Dr Nashwa Nabil

Date of last update & approval by department council: 6 /3 /2023



نموذج رقم (١١أ)

جامعة/أكاديمية : المنيا
كلية / معهد: الطب البشري
قسم: الصحة العامة والطب الوقائي وطب الصناعات

مسمى المقرر	دكتوراه طب الصناعات والصحة المهنية Occupational medicine
كود المقرر	IN 100

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Occupational diseases of different body systems (lung, heart, kidney, …..)	**A1,A2,A3,A4,A7**	**B1,B2,B3**	**C1,C2,C3,C4, C5,C6,C7,C8**	**D10,D11,D12**
Solvents and selected solvent effects	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**
Pesticides	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**
Special chemical exposures	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**
Metals	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**
Noxious Gases	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**
Industrial process, health hazards and preventive measures	**A5,A7**	**B1,B2,B3,B4**	**C1,C2,C3**	**D10,D11**

B.Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2, A3,A4,A6, A7,A8,A9,A10	B1,B2,B3,B4,B5,B 6,B7,B8		
Practical			C1,C2,C3,C4,C5, C6,C,7C,8	
Presentation/seminar Journal club Thesis discussion Training courses & workshops				D1,D2,D3,D4,D5, D6,D7,D8,D9,D10, D11,D12,D13,D14, D15,D16

C.Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	A1,A2, A3,A4,A6, A7,A8,A9,A10	B1,B2,B3,B4,B 5,B6,B7,B8		
Practical exam			C1,C2,C3,C4,C5,C 6,C,7C,8	
Oral Exam				D1,D2,D3,D4,D5,D6,D7,D8,D9, D10,D11,D12,D13,D14,D15,D16
Seminars, presentations, Assignments, Logbook assessment				D1,D2,D3,D4,D5,D6,D7

Course Specifications of:
"*Occupational lung diseases for doctoral degree in Occupational medicine*"
2022-2023

University: Minia University
Faculty: Faculty of Medicine
Department offering the course: Occupational lung diseases
Course Specifications
It is a part of Postgraduate (MD) Programme for occupational medicine.
Programme(s) on which the course is given: second part MD of occupational medicine

1- Basic Course Information		
Academic Year/ level: second Part MD , occupational medicine	**Course title:** Occupational lung diseases	**Code: IN 100**
Number of teaching hours: **-Lectures :**2h / week		
2-Overall Aims of the course		
By the end of the course the candidate must be able to: 1- Define the lung diseases related to job hazards 2- Diagnose and investigate occupational lung diseases 3- Determine degree of disability and rehabilitation needed		
3- **Intended learning outcomes of course (ILOs)**		
Upon completion of the course , the candidate should be able to :		
A-Knowledge and understanding	A1- define different types of pneumoconiosis A2- define different causes of occupational asthma A3- Explain different causes of hypersensitivity lung diseases	

B-Intellectual Skills	B1- diagnose occupational lung diseases clinically B2- examine occupational lung diseases radiologically B3- distinguish different patterns of pulmonary function tests
C-Professional and practical skills	C1-present a cases and writing report in occupational lung diseases C2- Carry out patient management plans for common occupational lung diseases C3-interpret lung volumes and capacitiesin different types of pneumoconiosis
D- General and transferrable Skills	D1- identify prevalent lung diseases among workers D2- Maintain ethical sound relationship with occupational workers and professionals during management.

4-Course content			
	No. Of hours	Lecture	Practical
Particle deposition and pulmonary defense mechanism			2
Pulmonary function tests			2
Occupational hypersensitivity pulmonary disease			2
Occupational asthma			2
Respiratory irritants and pulmonary response			2
Organic dust exposure			2
Inorganic dust exposure			2
Radiological examination 1			2
Radiological examination 2			2

5-Teaching and learning methods

1- Practical lessons
2- Seminars
3- Group discussion

6- Student assessment methods

Case presentation

7- List of references

6.1- Course notes: - Department Books, and notes.
-Logbook

جامعة/أكاديمية : المنيا
كلية / معهد: كلية الطب البشري

Occupational lung diseases for doctoral degree in occupational medicine	**مسمى المقرر**
IN100	**كود المقرر**

قسم :امراض الصدر

A.Matrix of Coverage of Course ILOs by Contents

Contents (List of course topics)	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
Particle deposition and pulmonary defense mechanism	A1	**B1**	**C1**	**D1**
Pulmonary function tests	A1,A2	**B1**	C2,c3	
Occupational hypersensitivity pulmonary disease	A1,A3	**B2**	**C1**	**D1**
Occupational asthma	A1,A2	**B2,b3**	**C1,C2**	D2
Respiratory irritants and pulmonary response	A1,A2	**B2,b3**	**C1**	**D1**
Organic dust exposure	A1,A2	**B2,b3**	**C1**	**D1**
Inorganic dust exposure	A1,A2	**B2,b3**	**C1**	**D1**
Radiological examination 1			**C1,C2**	D2
Radiological examination 2			**C1,C2**	D2

B.Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Practical lessons			C1,C2,c3	
Seminars				D1,D2
Group discussion				D1,D2

C. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Case presentation	A1,A2,a3	B1,B2,b3	C1,C2,c3	**D1,D2**

Course Specifications of:
"*occupational skin diseases for doctoral degree in Occupational medicine*"
2022-2023

University: Minia University
Faculty: Faculty of Medicine
Department offering the course: ***occupational skin diseases***
Course Specifications
It is a part of Postgraduate (MD) Programme for occupational medicine.
Programme(s) on which the course is given: second part MSC of occupational medicine

1- Basic Course Information		
Academic Year/ level: second Part MD , occupational medicine	**Course title:** ***occupational skin diseases***	**Code: IN 100**
Number of teaching hours: **-Lectures :**2h / week		
2-Overall Aims of the course		
By the end of the course the candidate must be able to: 1- Define the skin diseases related to job hazards 2- Diagnose and investigate occupational skin diseases 3- Management of ocuupational skin infections and cancers		
3- **Intended learning outcomes of course (ILOs)**		
Upon completion of the course , the candidate should be able to :		
A-Knowledge and understanding	A1- define different types of irritant and contact dermatitis A2- define different forms of skin cancers related to occupations A3- Define types of skin infections due to occupations	
B-Intellectual Skills	B1- diagnose irritant and contact dermatitis clinically B2- differentiate between types of skin cancers(SCC, BCC, melanoma) B3- distinguish types of occupational skin infections	

C-Professional and practical skills	C1- Carry out patient management plans for common occupational skin diseases C2- differentiate clinically between types of skin diseases
D- General and transferrable Skills	D1- identify prevalent skin diseases among workers D2- Maintain ethical sound relationship with occupational workers and professionals during management.

5-

4-Course content			
	No. Of hours	Lecture	Practical
Irritant dermatitits			2
Contact dermatitis			2
Occupational Skin cancers			2
Occupational skin infections			2

Teaching and learning methods

4- Practical lessons
5- Seminars
6- Group discussion

6- Student assessment methods

Oral exam

7- List of references

6.1- Course notes: - Department Books, and notes.
-Logbook

A.Matrix of Coverage of Course ILOs by Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Irritant dermatitits		A1	**B1**	**C1**	**D1,D2**
Contact dermatitis		A1	B1	C1	**D1,D2**
Occupational Skin cancers		A2	**B2**	**C1**	**D1,D2**
Occupational skin infections		A3	**B3**	**C2**	**D1,D2**

B.Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Practical lessons		B1,B2,B3	C1,C2	
Seminars	A1,A2,A3			D1,D2
Group discussion	A1,A2,A3			D1,D2

C. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Oral exam	A1,A2,A3	B1,B2,B3	C1,C2	**D1,D2**

تقرير مقرر دراسي

Course report of MD degree in Occupational Medicine

University: Minia
Faculty: Medicine
Department: Department of Occupational Medicine

A-Basic Information

- **Course Ttitle and Code: Doctoral degree** in **Occupational Medicine (code: IN 200)**
- **Specialty: Occupational Medicine**
- **Level/year (1st or 2nd part): 2nd part**
- **Number of units / Credit hours:**

Lectures	**12/ week**	+ Practical/clinical	**6/ week**

- **Adopted system for selection & formation of examiners' committee:**

Available	√	Not available	

- **System of external evaluation of the exam:**

Available	√	Not available	

B- Professional Information

- **Statistical Information:**

- No. of students attended/joined the course	No.	1	%	
- No. of students completed the course & attended the exam	No.	1	%	

- Results:

Passed:	No:	**1**	%		Failed:	No:	**zero**	%	

- Ssuccess percentages & distribution according to the grades of passed students:

Excellent	No:	**1**	**%**		Very good:	No:		**%**	
Good	No:		**%**		Pass:	No:		**%**	

2- Course Teaching:

- **Course topics taught**

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
	(12h / week) 60	**(6h / week) 30**	**(18h / week) 90**
Occupational diseases of different body systems (lung, heart, kidney, …..)	**15**	**15**	**30**
Solvents and selected solvent effects Pesticides Special chemical exposures Metals Noxious Gases	60	30	90
Industrial process Health hazards and preventive measures (4 per week)	45	15	60
Total	180	90	270

- Total percentage of the essential course topics that actually covered: 100 %

- Obligation/commitment of the teaching staff to the specified course content:

>85%		**60-84 %**		**<60%**	√

- The extent to which the exam covered the course topics:

>85%	√	**60-84 %**		**<60%**	

- Teaching and Learning Methods:

Lectures	180
Practical/laboratory training	90
Clinical training	Continuous
Grand rounds	Continuous
Case presentation & case study	Continuous
Semester work/class activities	Continuous
Training courses and workshops	Continuous
Seminars	Continuous
Self-learning	Continuous
Others (specify)	Continuous

3- Student Assessment:

Method of Assessment	**Marks**	**%**
Written examination	100	100
Oral & practical examination	100	100
Practical/ Laboratory examination	100	100
Clinical examination	100	100
Assignments/ activities/log book	100	100
Other (Specify)		
Total	100	100

- **Written exam to assess** the student's comprehension and understanding of the class work.
- **Oral exam to assess** student's intellectual and communication abilities regarding basic knowledge and understanding of the course topics.
- **Practical exam to assess** the student's ability to identify different topics of the course and how to write a report.

4- Facilities available for Teaching:

- **Scientific references:**

Available	√	**Available to some extent**		**Unavailable**	

- **Assistant aids/tools:**

Available	√	**Available to some extent**		**Unavailable**	

- **Other materials, supplies and requirements:**

Available	√	**Available to some extent**		**Unavailable**	

5- Administrative & regulatory Constraints:

No	√	**Yes**	

- **If yes, Please list any inadequacies that impede the course delivery and achievement of ILOs:**

6 – Results of student feedback as a result of course evaluation:

- N.B. Please insert the results of the questionnaire including the percentage of individual items:

اراء عامة حول المقرر	ممتاز ١ (١٠٠٪)
يغطي المقرر مخرجات التعلم المستهدفة	ممتاز ١ (١٠٠٪)
من حيث المحاضرات	ممتاز ١ (١٠٠٪)
من حيث المحاضر	ممتاز ١ (١٠٠٪)
من حيث نظام التقويم	ممتاز ١ (١٠٠٪)
المعامل وامكان التدريب	ممتاز ١ (١٠٠٪)
المدرجات وقاعات الدرس	ممتاز ١ (١٠٠٪)
الاجمالي	ممتاز ١ (١٠٠٪)

- State the proposals of the staff members for course development & enhancement, in response to the issues raised by students.

7- External evaluator/s comments:

- the external evaluator report: Attached
- State here the issues that have been raised in that report: a lot of writing mistakes
- State the proposals of the staff members for dealing with those issues: corrected

8- Completed actions related to course development in the last year:

- N.B. Please list the issues & actions that have been done in the action plan of the last year.

9- Non-completed actions related to course development in the last year:

- Please list the issues/actions that have not been dealt with and the reasons for non-accomplishment.

10- Action plan for the next academic year:

- **Fields/areas of course development**

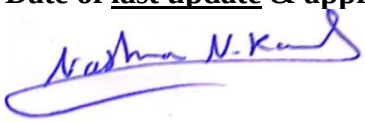
Actions Required	Completion Date	Responsible Person
Correcting writing mistakes	6/3/2023	Dr/Shimaa mahmoud

Program Coordinators:

Dr Shimaa Mahmoud
Dr Chrestina Mounir

Head of Department: Prof Dr Nashwa Nabil

Date of last update & approval by department council: 6 /3 /2023



كلية الطب
Faculty of Medicine

MINIA UNIVERSITY

Program Report of MD in Occupational medicine

نموذج رقم (١٥)
تقرير عن برنامج درسي

Program report
For academic year 2023

University/Academy: Minia
Faculty/ institute: Medicine
Department: public health and occupational medicine

A- BASIC INFORMATION

1-Program title: **اسم البرنامج**	**Doctoral degree** in **Occupational and Industrial Medicine**
2-Speciality: **التخصص**	**Occupational Medicine**
3-No of program's years: **عدد السنوات الدراسية**	3.5 years
4-No of credit hours/No of courses **عدد المقررات/عدد الساعات المعتمدة**	1st part: Lectures (1)+Practical/training(1) 2nd part: Lectures (12)+Practical/training(6)
5- Roles that regulate formation of examiners committees: **أسس تشكيل لجان الممتحنين**	N.B. Please refer to the by law and other decisions approved by the faculty council
6-External examiners' system: **نظام الممتحنين الخارجيين**	Available (√) not available ( )

B- PROFESSIONAL INFORMATION

7-Statistics **إحصائيات**	
-No of Students joined the program **عدد الطلاب الملتحقين بالبرنامج**	1
- Success rate in the program (%) **معدل النجاح في البرنامج (%)**	100%
-Ratio of students attending the program this year (in relation to those of last 3 years) **اتجاه الالتحاق بالبرنامج (منسوبة الى الأعداد الملتحقة بالبرنامج خلال آخر ٣ سنوات)**	Increasing ( ) Constant (√) Decreasing ( )
-Final Exam results **نتائج الامتحان النهائي**	No % No %
-Distribution of success grades (%) **توزيع تقديرات النجاح (%)**	Excellent (√) Very good ( ) good ( ) Pass ( )

8- Academic standards **المعايير الأكاديمية**	
- Academic reference standards (ARS): **المعايير الأكاديمية المرجعية**	Minia Faculty of Medicine adopted the general National Academic Standards (MARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for postgraduate programs.
- Knowledge & Understanding: **المعلومات والمفاهيم**	A.1. Define theories, basics and updated sciences in Occupational and Industrial Medicine A.2. Identify effect between professional practice in Occupational and Industrial Medicine and its impact on the environment A.3 Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to occupational and environmental medicine. A.4. Mention the basic ethical and medicolegal principles relevant to the occupational and environmental medicine. A.5. Identify the basics of quality assurance to ensure good clinical care in the field of practice. A.6. Identify the basics, methodology and ethical issue of scientific research. A.7. Mention essential facts of clinically supportive sciences including Occupational chest diseases, Occupational dermatology, Audiology and Clinical toxicology In addition to Basic of Internal Medicine related to occupational and environmental medicine. A.8. Explain the essential facts and principles of relevant basic sciences including, Occupational Epidemiology, Biostatistics, sociology, industrial

	chemistry and Environmental, human physiology related to occupational and environmental medicine. A.9. Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to occupational and environmental medicine. A.10 State the impact of common health problems in the field of occupational and environmental medicine on the society.
- Intellectual skills **المهارات العقلية**	B.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the occupational and environmental medicine. B.2 Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to occupational and environmental medicine. B.3 Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the occupational and environmental medicine field. B.4 Compute research studies (thesis) that add to knowledge B.5. Outline and solve risk in professional practices in this area B.6. Sketch the principles and fundamentals of quality assurance of professional practice B.7. Operate training for being able to decision-making in a variety of professional situations B.8. Formulate management plans and alternative decisions in different situations in the field of the occupational and environmental medicine.

-Professional & practical/clinical skills: **المهارات المهنية والعملية**	C.1. Obtain proper history and examine patients in caring and respectful behaviors. C.2. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to occupational and environmental medicine. C.3. Carry out patient management plans for common conditions related to occupational and environmental medicine. C.4. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records) C.5. Use information technology to support patient care decisions and patient education in common clinical situations related to occupational and environmental medicine. C.6. Perform competently non invasive and invasive procedures considered essential for the occupational and environmental medicine. C.7. Provide health care services aimed at preventing health problems related to occupational and environmental medicine. C.8. Provide patient-focused care in common conditions related to occupational and environmental medicine, while working with health care professionals, including those

	from other disciplines
-General & transferable skills: **المهارات العامة والمنقولة**	D.1. Facilitate learning of students and other health care professionals including their evaluation and assessment, Interpersonal and Communication Skills D.2. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education. D.3. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks). D.4. Appraises evidence from scientific studies D.5. Apply the information technology (web sites, journals and digital libraries) to manage information, teaching and research D.6. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society D.7. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices D.8. Work effectively with others as a member of a health care team or other professional group D.9. Work effectively in relevant health care delivery settings and systems including good administrative and time management. D.10. Prepare and integrate scientific activities as seminars, journal clubs, scientific meetings or conferences.

	Improve his practice through constant self-evaluation and life-long learning D.11. Conduct epidemiological Studies and surveys. D.12. Maintain therapeutic and ethically sound relationship with patients. D.13. Elicit information using effective nonverbal, explanatory, questioning, and writing skills. D.14. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities D.15. Practice cost-effective health care and resource allocation that does not compromise quality of care. D.16. Assist patients in dealing with system complexities
- Students' support system (students with limited capabilities & those with outstanding performance): **طرق دعم الطلاب (ذوي القدرات المحدودة والمتميزين)**	1- Adequate conditioned space for staff and assistants. 2- Adequate conditioned teaching facilities. 3- Audiovisual Aids Data show, overhead and slide projectors & their requirements.
-External reference standards for the program (Benchmark): **معايير القياس المرجعية للبرنامج**	
-Program handbook: **دليل البرنامج**	Available (√) Not available (√)
-Program review process: **نظام المراجعة الدورية للبرنامج**	Available (√) Not available ( ) Annual (√) More than one year ( )
- Achievement of program intended learning outcomes(ILOs) by academic program framework (by courses): **مدى توافق الهيكل الأكاديمي للبرنامج مع المستهدف من التعليم**	N.B. Please insert/attach the matrix of program ILOs vs courses
-Administrative and regulatory constrains:	N.B. Please list all constraints including

المعوقات الإدارية والتنظيمية	those have been mentioned in all course reports

9-Students assessments to measure achievement of program intended learning outcomes (ILOs)	
-Assessment tools/methods: **أدوات التقويم**	1-Written exams assess knowledge. 2- Oral exams to assess knowledge. 3- Observation of attendance and absenteeism
-Timetable/schedule: **المواعيد**	**First Part :** • 6 months • **Credit Hours: 2hours per week** • **Lecture:1hours/week** • **Practical: 1/week** **Second Part:** • **>24 months** • **Credit Hours:** 18 hours **per week for 52 week** • **Lecture:** 12 per week • **Practical: 6 per week**
-External evaluator comments: (if present) **ملاحظات المراجع الخارجي (إن وجدت)**	N.B. Please attach the external evaluator report for the program and state here the comments & issues raised.

10-Educational resources:

Ratio of teaching staff to student numbers **نسبه اعضاء هيئه التدريس على راس العمل الى الطلاب**	**Sufficient to some extent**
- Suitability of staff members specialties as well as distribution of teaching loads for program's needs **مدى ملائمة تخصصات أعضاء هيئة التدريس وتوزيع الأعباء عليهم طبقا لاحتياجات البرنامج**	Suitable (√) Suitable to some extent( ) Non- Suitable ( ) (why?) …… …….. ……
-Library: **المكتبة**	Suitable ( ) Suitable to some extent (√) Non- Suitable ( ) (why?) ……

	…….. ……
-Laboratories/clinical places: **أماكن التدريب الاكلينيكي/المعامل**	Suitable ( ) Suitable to some extent (√) Non- Suitable ( ) (why?) …… …….. ……
-Computers/computer labs: **الحاسب الآلي**	Suitable ( ) Suitable to some extent (√) Non- Suitable ( ) (why?) …… …….. ……
-Collaboration with other organizations for offering students training opportunities: **مدى التعاون مع جهات الأعمال في توفير فرص التدريب للطلاب**	**sufficient**
-Other program requirements: **أي متطلبات أخرى للبرنامج**	**No**

11-Quality management & development system
ادارة الجودة والتطوير

- The follow up system for areas of Weakness: **نظام المتابعة لجوانب القصور**	Effective (√) Effective to some extent ( ) Not effective ( ) (Why?) …….. …… …… .
Implementation of faculty and university bylaws: **إجراءات تطبيق لوائح وقوانين الكلية والجامعة**	Suitable (√) Suitable to some extent ( ) Non- Suitable ( ) (why?) …….. …… …… .
-Effectiveness of internal evaluation/audit process in program development: **مدى فاعلية نظام المراجعة الداخلية في تطوير البرنامج**	Effective (√) Effective to some extent ( ) Not effective ( ) (Why?)
-External evaluators' comments on program ILOs and assessment standards: **ملاحظات المراجعين الخارجيين فيما يخص مخرجات البرنامج ومعايير القياس**	Effective (√)

12- Program development suggestions:
مقترحات تطوير البرنامج

-Program structure (courses / hours): **هيكل البرنامج (المقررات / الساعات)**	**Increase number of practical and clinical sessions**
-New courses: **مقررات جديدة**	**No**
-Training and skills: **التدريب والمهارات**	Training Courses Conference attendance
- Health sector/stockholders' suggestions for program development: **مقترحات قطاع الأعمال والجهات المعنية لتطوير البرنامج**	**More devices related to speciality**
-Person in charge: **المسئول عن التنفيذ**	**Head of department**
-Time of execution **توقيت التنفيذ**	**End of 2023**

❖ **Action Plan:**

- **N.B. Suggestions for fields/areas of program development:**
  - Any changes in program structure (courses / hours).
  - Actions for including new courses.
  - Actions required in response to the student feedbacks on the whole program.
  - Actions required in response to the student feedbacks in all courses
  - Actions required in response to the external evaluator comments on the whole program.
  - Actions required in response to each external evaluator comments on individual courses (if present).
  - Actions required in response to the health sector/stockholders' suggestions for program development.
  - Any other actions suggested by the department, faculty administration and reports of internal evaluation process.

Actions Required	Completion Date	Responsible Person
Increase number of practical and clinical sessions	End of 2023	Occupational staff members
Training Courses Conference attendance	End of 2023	Occupational staff members
More devices related to specialty	End of 2023	Head of department

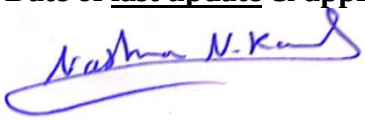
Program Coordinators:

Dr Shimaa Mahmoud

Dr Chrestina Mounir

Head of Department: Prof Dr Nashwa Nabil

Date of last update & approval by department council: 6 /3 /2023



نموذج (٢٠)
تقرير مراجع خارجي لبرامج الدراسات العليا

يعبر التقرير التالي عن الرأي العلمي الموضوعي للسيد / أ.د .حسين حسن سيد الظابط

- الوظيفة الحالية :استاذ متفرغ امراض مهنية وبيئية بكلية الطب جامعة القاهرة

تمت مراجعة وتقييم توصيف البرامج المرفق بناء على طلب :

قسم :الصحة العامة والطب المهنى

كلية / معهد :الطب

جامعة / أكاديمية : المنيا

اسم البرنامج :دكتوراة طب الصناعات والامراض المهنية

تاريخ المراجعة :٥ مارس ٢٠٢٣

برجاء مراجعة المكونات التالية التي تساعد على التقييم الشامل لتوصيف البرنامج المعنى , وذلك باستخدام المقياس التالي :

أ) البيانات الأساسية للبرنامج :

العناصر	مستوفى	غير مستوفى
البيانات الأساسية	√	
اسم المنسق	√	

تعليقات المقيم

Program Coordinators: Dr Shimaa Mahmoud
Dr Chrestina Mounir
Head of Department: Prof Dr Nashwa Nabil

التقييم الأكاديمي :

أهداف البرنامج		
صياغة الأهداف	واضحة √□	غير واضحة □
قابلة للقياس	كمي √□	نوعى √□

تعليقات المقيم: صياغة الاهداف واضحة وقابلة للقياس

مخرجات التعليم المستهدفة للبرنامج :

مخرجات التعليم المستهدفة	واضحة √□ غير واضحة □
ارتباط مخرجات التعليم المستهدفة بأهداف البرنامج	مرتبطة √□ غير مرتبطة □
تحقق مخرجات التعلم المستهدفة بالمقررات	تتحقق √□ لا تتحقق □
مخرجات التعلم المستهدفة تتوافق مع مواصفات الخريج للبرنامج فى كل من	

– المجال المعرفى – المهارات التطبيقية والمهنية – المهارات الزهنية – المهارات العامة	يتوافق √□ لا يتوافق □ يتوافق√ □ لا يتوافق □ يتوافق√ □ لا يتوافق □ يتوافق√ □ لا يتوافق □
مخرجات التعلم المستهدفة للبرامج تواكب التطور العلمى فى مجال التخصص	تواكب√ □ لا يواكب □
مخرجات التعلم المستهدفة للبرنامج تواكب احتياجات سوق العمل	تواكب√ □ لا تواكب □

تعليقات المقيم .....

.....

المعايير الأكاديمية :	
تحديد المعايير الأكاديمية	محددة √□ غير محددة □
ملائمة المعايير الأكاديمية لمواصفات الخريج	ملائم√ □ غير ملائم □
تحقيق المعايير الأكاديمية المتبناة من خلال توصيف البرنامج	يتحقق √□ لا يتحقق □

تعليقات المقيم ....

.....

هيكل البرنامج ومحتوياته :
توازن هيكل البرنامج مع مواصفات الخريج من حيث : – مقررات العلوم الأساسية . – مقررات العلوم الإنسانية والاجتماعية – مقررات متخصصة – تدريب عملى وميدانى .

تعليقات المقيم: هيكل البرنامج متوازن فيما يخص العلوم الاساسية والتدريب الميدانى

ملاحظات :يجب الرجوع عند تقييم هذا الجزء إلى الهياكل المطبقة فى البرنامج المناظرة

ج) تقويم أعمال الطلاب	
ملائمة الطرق المستخدمة فى التقويم لطبيعة مخرجات التعلم المتهدفة	ملائمة □√ غير ملائمة □

تعليقات المقيم :

.....

د) مقررات البرامج :

يعتمد التقويم فى هذا الجزء على المراجعة الدقيقة لتوصيف المقررات الخاصة بالبرنامج

كود المقرر	research methodology		Computer& biostatistics		Occupational& industrial medicine	
	يتحقق	لا يتحقق	يتحقق	لا يتحقق	يتحقق	لا يتحقق
واضح أهداف المقرر	√		√		√	
ارتباط أهداف المقرر بأهداف البرنامج	√		√		√	
قابلية مخرجات التعلم المستهدفة للقياس	√		√		√	
ملائمة مخرجات التعلم المستهدفة لأهداف المقرر	√		√		√	
توافق مخرجات التعلم المستهدفة مع مصفوفة المعارف والمهارات للبرنامج	√		√		√	
ملائمة طرق التعليم والتعلم المستخدمة لتحقيق مخرجات التعلم المستهدفة	√		√		√	
اتسام محتويات المقرر بالحداثة	√		√		√	
الوسائل المستخدمة للتعليم والتعلم مناسبة للطرق المذكورة	√		√		√	
طرق تقييم الطلاب المستخدمة ملائمة	√		√		√	
المراجع المذكورة حديثة						

كود المقرر	Occupational lung diseases		Occupational skin diseases	
	يتحقق	لا يتحقق	يتحقق	لا يتحقق
واضح أهداف المقرر	√		√	
ارتباط أهداف المقرر بأهداف البرنامج	√		√	
قابلية مخرجات التعلم المستهدفة للقياس	√		√	
ملائمة مخرجات التعلم المستهدفة لأهداف المقرر	√		√	
توافق مخرجات التعلم المستهدفة مع مصفوفة المعارف والمهارات للبرنامج	√		√	

ملائمة طرق التعليم والتعلم المستخدمة لتحقيق مخرجات التعلم المستهدفة	√		√	
اتسام محتويات المقرر بالحداثة	√		√	
الوسائل المستخدمة للتعليم والتعلم مناسبة للطرق المذكورة	√		√	
طرق تقييم الطلاب المستخدمة ملائمة	√		√	
المراجع المذكورة حديثة				

تعليقات أخرى
وجود اخطاء املائية كثيرة
رأى المقيم النهائي :
البرنامج موضوع بشكل جيد جدا ومستوفى النقاط العلمية لتوصيف البرنامج

اسم المراجع الخارجي: حسين حسن سيد ظايط
التوقيع: حسين حسن
تاريخ المراجعة : ٥مارس ٢٠٢٣