



كلية الطب

Faculty of Medicine



وحدة ضمان الجودة

Quality Assurance Unit

Medical Undergraduate Program specifications

A. Basic information

Program title: Bachelor's degree of medicine and surgery (M.B.B.CH) Faculty of Medicine – Minia University

Program type: Single program.

Program duration: 6 years (to be reevaluated every 6 years).

University: Minia

Faculty: Faculty of Medicine

Departments: sixteen (16) departments including:

- 1- Human anatomy and embryology
- 2- Medical Physiology
- 3- Histology and cell biology
- 4- Medical Biochemistry
- 5- Pathology
- 6- Medical Pharmacology
- 7- Medical Microbiology and Immunology
- 8- Medical Parasitology

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رؤية الكلية: تحقيق الريادة على المستوى المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

رسالة الكلية: اعداد طبيبا قادرا على المنافسة في سوق العمل محليا ودوليا وباحثا قادرا على الابتكار وتقديم رعاية صحية مجتمعية تحقق اهداف التنمية المستدامة لرؤية مصر ٢٠٣٠ من خلال تقديم برامج تعليمية مطورة وتهيئة بيئة رقمية تحقق معايير الجودة والاعتماد



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9- Forensic & Clinical Toxicology

10- Public health and Community

11-Ophthalmology

12- Otorhinolaryngology

13- Internal Medicine (including chest, Neurology, psychiatry, Cardiology, Rheumatology, Dermatology, Clinical pathology, Tropical, Diagnostic radiology)

14-Pediatrics

15- Obstetrics and Gynecology

16-General Surgery (including Urology, Orthopedic surgery, Cardiothoracic surgery, Vascular surgery, Neurosurgery, Plastic surgery, Anesthesia)

Dean of the faculty: Prof. Hossam Eldeen Shawky.

Vice dean for education and student affairs: Prof. Ehab Refaat

Coordinator: Prof. Ehab Refaat

Internal evaluator: Prof. Noha Anwar

External evaluators: Prof. Salwa Bakr Mohamed

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رؤية الكلية: تحقيق الريادة على المستوي المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

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Date of program specifications approval: Decision number (446) June 18, 2007.N.B.It has been

Agreed upon that the program will be reviewed & updated every 6 years.

Minor modifications have been made according to the new by law on 20th March 2012 decision number (111).

Modified 19/3/2018 decision number (100/3) according to the dependent NARS 2009

Modifying undergraduate program depending on the report of formal visit (from 17-19 April 2018) at 17/9/2018

Modifying undergraduate program at 20/9/2021 decision number (340/9) depending on the external and internal revision.

Last modifications done on 20/3/2023 depending on the report of the last visit on (6-7/6/2022) and the external and internal revision.

B. Professional information

1- Program aims:

Upon successful completion of the program, the graduate should be able to:

1.1. a. Understands normal health, provide primary health care.

1.1. b. Manage common health problems in the society.

1.2. Value the importance of a good doctor/ patient relationships, and how to deal with his colleague, seniors and patients ethically.

1.3. Use rules of medical ethics.

1.4. Show appropriate communication, clinical and practical skills.



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- 1.5. Show good respectable attitudes and professionalism.
 - 1.6. Present life-long learning in order to keep earning knowledge.
 - 1.7. Collaborate in post- graduate field.
 - 1.8. Design research studies and develop basic administrative capabilities.
 - 1.9. Recognize his/her role as a part of health care system, respecting its hierarchy and rules and using his managerial and leadership skills to add value to the system.
 - 1.10. Contribute to the development and empowerment of his/ her community.
- N.B (1.9,1.10 were added after study of gap analysis between program and NARS2017)

National Academic Reference Standards (2009)	Faculty of Medicine, Minia University Program
1. Attributes of the Graduate of Medical Medicine The Medical graduate must:	1. Program Aims
1.1. Work to maintain normal health, provide primary health care and deal with common health problems in the society.	1.1. a. Keep normal health, provide primary health care. 1.1.b. Manage common health problems in the society.
1.2. Be aware of the importance of a good doctor/ patient relationship, and work to establish and maintain it.	1.2. Value the importance of a good doctor/ patient relationships, and how to deal with his colleague, seniors and patients ethically.
1.3. Follow rules of medical ethics	1.3. Observe rules of medical ethics.
1.4. Demonstrate appropriate communication, clinical and practical skills.	1.4. Develop appropriate communication, clinical and practical skills.
1.5. Show appropriate attitudes and professionalism.	1.5. Deal by good respectable attitudes and professionalism.



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- 1.6. Be prepared for lifelong learning
- 1.7. Be able to engage in post-graduate and research studies.
- 1.8. Acquire basic administrative capabilities

- 1.6. Maintain life-long learning in order to keep earning knowledge.
- 1.7. Engage in post-graduate field.
- 1.8. Make research studies and develop basic administrative capabilities.

2. Intended Learning Outcomes (ILOs)

A. Knowledge and Understanding:

Graduates should demonstrate knowledge and understanding of:

A.1. Normal human body:

A.1.1. Describe Normal structure and function of human body (as an intact organ) and of each of its major systems at molecular, cellular, biochemical & organ levels.

A.1.2. Outline Molecular, biochemical, and cellular mechanisms which are important in maintaining the body homeostasis.

A.1.3. Recognize normal growth and development of human body including main developmental changes and the effect of growth, development and aging on the individual & his/her family.

A.1.4. Identify basics of normal and abnormal behaviors.

A.2.

A.2.1. Discuss altered growth, development, structure and function of the body and its major systems that are seen in various diseases and conditions.



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A.2.2. Identify principles of genetics and their role in health and disease, as well as basics of gene therapy and genetic counseling.

A.3. Recognize common and life-threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum, **and their** incidence, etiology, risk factors, natural history, pathogenesis, clinical features, differential diagnosis, and complications.

A.4. Describe principles of management strategies of common and life-threatening diseases including:

A.4.1. Pharmacological basis of drugs including drug effects, pharmaco-kinetics, dosage, drug-drug interactions, and adverse reactions.

A.4.2. Non-invasive and invasive available interventions.

A.4.3. Basic pre- and post-operative care.

A.4.4. Pain relief and palliative care

A.4.5. list common diagnostic investigations e.g., laboratory, radiological and pathological (stressing on their role in management plans).

A.5. Identify principles of Population Health and Health Systems, including:

A.5.1. The determinants of health, principles of disease prevention and early detection of common community health problems.

A.5.2. Epidemiological principles of demography and biological variability

A.5.3. Principles of disease surveillance and screening

A.5.4. Control of communicable diseases and health promotion.



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A.5.5. Population-based approaches to health care services and their role in improving medical practice

A.5.6. Indications, Advantages & disadvantages of various management strategies

A.6. Recognize basics of ethics, medico-legal aspects, malpractice, and common medical errors

A.7. Identify disability, its impact on community and principles of management (including rehabilitation, institutional and community care).

A.8. Retrieve basics of biostatistics

A.9. Categorize principles of prevention and management of locally endemic diseases (stressing on infective hepatitis, schistosomiasis, and tuberculosis).

A.10. Mention medical and surgical acute illnesses and emergencies.

A.11. Categorize principles and proper management of traumatic conditions (stressing on severely and poly-traumatized cases).

A.12. Gather the principles of toxicology.

A.13. Categorize principles of research methodology and critical evaluation of evidence.

A.14. Mention basic computer knowledge (needed to support literature retrieval and learning).

A.15. Demonstrate proficiently in English language (needed for learning and communication).

A.16. Identify vulnerable individuals that may be suffering from abuse or neglect and state proper actions to



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safeguard their welfare

B. Intellectual Skills:

B.1. Integrate basic anatomical, pathological, biochemical and physiological facts with clinical data.

B.2. Reason deductively in solving clinical problems:

B.2.1. Diagnose, evaluate, and prioritize problems.

B.2.2. Interpret, order, and analyze information objectively, recognizing its limitations.

B.3. Reconstruct the results of history, physical, pathological and laboratory test findings into a meaningful diagnostic formulation. (**Solving the clinical** problem and formulating differential diagnosis).

B.4. Judge, analysis and critical problem solving and seek out information.

B.5. (Plan) Construct appropriate management strategies (both diagnostic and therapeutic) for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.

B.6. Design an initial appropriate course of management for stabilization of patients with serious illnesses.

B.7. Categorize factors that place individuals at risk for disease or injury, to determine strategies for



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appropriate response.

B.8. Interpret, analyze, and synthesize relevant and current data from literature, using information technologies and library resources, to help solve a clinical problem based on evidence (Evidence-Based Medicine).

B.9. Cope with uncertainty by:

B.9.1. Acceptance that uncertainty is unavoidable in the practice of medicine.

B.9.2. Selection proper cognitive strategies to deal with uncertainty when it arises.

B.10. Demonstrate insight into research and scientific method through:

B.10.1. Formulation of research questions those are pertinent to medicine.

B.10.2. Recognition of the importance of precision in collecting, analyzing, and interpreting medical data.

B.11. Discuss the role of nutrition and physical activity in health.

B.12. Recognize conflict of interest and steps needed to manage the conflict.

C. Practical and Professional skills:

C.1. Practical Skills:

C.1.1. Demonstrate practical skills in basic medical sciences.

C.2. Clinical Skills:



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- Clinical Skills & Competencies acquired during the undergraduate years:

C.2.1. **Write** a structured, patient centered history.

C.2.2. **Executing** full physical examination appropriate to the age, gender, acute and chronic clinical conditions, and culturally sensitive.

C.2.3. **Examine** mental state of the patient.

C.2.4. **Formulate** a management plan for common diseases.

C.2.5. **calculate** drug dosage based on patient's weight, age and health condition.

C.2.6. **Choose** safe prescribe safe lines of treatment.

C.2.7. **Perform** required laboratory work as an integral part of their practical training in some pre-clinical departments.

C.2.8. **show**, careful use and handle instruments, devices, microscopes, etc.

- Procedures and Technical skills acquired during undergraduate and house officer training:

C.2.9. **Perform** venipuncture and collect blood samples.

C.2.10. **Guide** how to insert a cannula properly into suitable veins.

C.2.11. **Proceed** intramuscular, subcutaneous, and intravenous injections.

C.2.12. **Perform** suturing of superficial wounds.

C.2.13. **Demonstrate** competency in cardiopulmonary resuscitation and basic life-support.

C.2.14. **Organize** compulsory childhood vaccines.

C.2.15. **Perform** basic bedside laboratory tests.

C.2.16. **make** and **interpret** ECG.

C.2.17. **Supply** basic oxygen therapy.



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C.2.18. **Supply** a nebulizer for administration of inhalation therapy.

C.2.19. Insert a nasogastric tube.

C.2.20. **Fix** bladder catheterization.

C.2.21. **Make** procedure of normal labor.

C.2.22 **Adopt** and perform suitable measures for infection control.

C.2.23 **Provide** care for specific groups including pregnant women ,newborn and infants, adolescent, and the elderly.

C.3. Professional Attitude and Behavioral skills:

□ ***Graduates should be able to:***

C.3.1. **Design** an empathic and holistic approach to the patients and their problems.

C.3.2. **Apply the code of ethics** to respect patients' rights and involve them and /or their caretakers in management decisions.

C.3.3. **Treat with respect and understanding** the different cultural believes and values in the community they serve.

C.3.4. **Recognize** the important role played by the other health care professions inpatients management.

C.3.5. **Be aware** and **understand** the national code of ethics.

C.3.6. **Council** patient suffering from complicated terminal illness.

C.3.7. **Ensure confidentiality** and privacy for patient information.

C.3.8. **Treat** all patients equally, avoid stigmatizing any category regardless to believes, culture and behaviors.

C.3.9. **Demonstrate, respect,** and **work** cooperatively with other health care professional for effective patient management.



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- C.3.10. **Be willing** to share in all types of inter-professional activities including collaborative and shared learning.
- C.3.11. **Ensure** the cost effectiveness of management.
- C.3.12. **Refer** patients to appropriate health facility at the appropriate stage
- C.3.13. **Apply** fundamental knowledge and health economics to ensure the effectiveness and the health care system.

C.4 Communication skills

Graduates as well as house-officer should be able to

- C.4.1. **Deal** clearly, sensitively, and effectively with patient and their relatives, and colleagues from a variety of health, social care and professions.
- C.4.2. **Treat all** individuals equally regardless of their social, cultural, or ethnic backgrounds, or their disabilities.
- C.4.3. **Manipulate** with situations where communication is difficult including bad news.
- C.4.4. **Show** compassion to the patients and their relatives in situations of stress and grief.
- C.4.5 . **Respect** patients and their relatives, Superiors, colleagues, and any other members of health profession.

D. General, and Transferable:

Graduates at graduation will be able to:

- D.1. **Present** the principles of lifelong learning and how to earn knowledge.
- D.2. **Use** computers efficiently.
- D.3. **Assist, manage, and manipulate** information, including electronically.



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- D.4.** Organize and present information clearly in written, electronic, and oral forms.
- D.5.** Communicate ideas and arguments effectively.
- D.6.** Effectively manages time and resources and set priorities.
- D.7.** Work and cooperate effectively within a team.
- D.8.** Adjust and produce an effective leader of health team at primary care level, in planning, supervising & monitoring the services of health professionals in health team .
- D.9.** Analyze and use numerical data (Use simple statistical methods).
- **Graduates at the end of the house officer year will be able:**
- D.10.** Support Evidence Based Medicine in management decisions.
- D.11.** Cooperate with the health care team.
- D.12.** Seek to solve problems related to patients, work management, and among colleagues.
- D.13.** Follow a changing work environment.
- D.14.** Support safety and infection control measures during practice.
- D.15.** Justify work and that using constructive feedback.
- D.16.** Recognize own personal and professional limits and seek help from colleagues and supervision when necessary.
- D.17.** Document clinical encounters in an accurate, complete ,timely and accessible manner ,in compliance with regulatory and legal requirements.



NARS		Program ILOs
2. Knowledge and understanding		A. Knowledge and understanding
2.1	Normal Human Body: <ol style="list-style-type: none"> Normal structure and function of the body (as an intact organism) and of each of its major systems. Molecular, biochemical, and cellular mechanisms which are important in maintaining the body homeostasis. Main developmental changes in humans and the effect of growth, development and aging on the individual and his family. Basics of normal and abnormal human behaviors. 	A.1. A.1.1. A.1.2 A.1.3 A.1.4
2.2	<ol style="list-style-type: none"> Altered structure and function of the body and its major systems that are seen in various diseases and integrate it in clinical conditions. principles of genetics and its role in health and disease, as well as basics of gene therapy and genetic counseling. 	A.2 A2.1 A2.2
2.3	Etiology, pathogenesis, clinical features, diagnoses and complications of common and life-threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.	A3
2.4	Principles of management of common and life threatening illnesses including: <ol style="list-style-type: none"> Pharmacological and non-pharmacological basics of therapy Noninvasive and invasive intervention. Basic pre- and post-operative care. Pain relief and palliative care. common diagnostic investigations e.g., laboratory, radiological and pathological (stressing on their role in management plans). 	A4. A.4.1 A.4.2 A.4.3 A.4.4 A.4.5



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2.5	Population Health and Health Systems: a. The determinants of health, principles of disease prevention and early detection of common community health problems. b. Epidemiological principles of demography and biological variability c. Principles of disease surveillance and screening. d. Communicable disease control and health promotion. e. Population-based approaches to health care services and their role in improving medical practice. f. Indications, Advantages & disadvantages of various management strategies	A5 A.5.1 A.5.2 A.5.3 A.5.4 A.5.5 A.5.6
2.6	Basics of ethics, medico legal aspects of health problems, malpractice, and common medical errors.	A.6
2.7	Nature of disability, its impact on community and principles of management (including rehabilitation, institutional and community care).	A.7
2.8	Basics of biostatistics	A.8
2.9	Principles of prevention and management of locally endemic diseases (stressing on infective hepatitis, schistosomiasis, and tuberculosis).	A.9
2.10	Medical and surgical acute illnesses and emergencies.	A.10
2.11	Principles and management of traumatic conditions (stressing on severely and poly-traumatized cases).	A.11
2.12	Principles of toxicology.	A.12



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2.13	Principles of research methodology and critical evaluation of evidence.	A.13
2.14	Basic computer knowledge (needed to support literature retrieval and learning).	A.14
2.15	Proficiently English language (needed for learning and communication).	A.15
3	3- Intellectual Skills	B Program Intellectual Skills
3.1	. Integrate basic biomedical science with clinical care.	B1
3.2	. Reason deductively in solving clinical problems: - a- Recognize, define and prioritize problems. - b- Interpret, analyze, and evaluate information objectively, recognizing its limitations.	B2 B2.1 B2.2
3.3	Use personal judgment for analytical and critical problem solving and seek out information.	B4
3.4	Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.	B3
3.5	. Construct appropriate management strategies for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.	B5
3.6	Design an initial course of management for stabilization of patients with serious illnesses.	B.6
3.7	. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.	B7



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3.8	Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).	B.8
3.9	Recognize and cope with uncertainty by: a..Accepting that uncertainty is unavoidable in the practice of medicine. b..Using appropriate cognitive strategies to deal with uncertainty when it arises.	B.9 B.9.1 B.9.2
3.10	Involvement into research and scientific methods through: a. Formulation of research questions that is pertinent to medicine. b. Recognition of the importance of precision in collecting, analyzing and interpreting medical data.	B10 B10.1 B10.2
4	4-Practical and Clinical Graduate should acquire the following practical as well as Clinical skills and competencies during the undergraduate years	C- Practical and Professional
4.1	Demonstrate basic sciences practical skills relevant to future practice.	C1.1



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4.2	<p>Clinical Skills & Competencies acquired during the undergraduate years:</p> <p>4.2.1. Take and record a structured, patient centered history.</p> <p>4.2.2. Perform full physical examination of patients with acute and chronic clinical conditions appropriate to the age, gender, acute and chronic clinical conditions while being culturally sensitive.</p> <p>4.2.3. Assess the mental state of the patient.</p> <p>4.2.4. Formulate a management plan for common diseases and acute emergencies.</p> <p>4.2.5. Write safe prescriptions of different types of drugs. based on patient's weight, age and health condition</p> <p>4.2.6. Perform required laboratory work as an integral part of their practical training in some pre-clinical departments.</p> <p>4.2.7. careful use & handling of instruments, devices, microscopes, etc.</p>	<p>C.2</p> <p>C2.1</p> <p>C2.2</p> <p>C2.3</p> <p>C2.4</p> <p>C.2.5,C.2.6</p> <p>C.2.7</p> <p>C.2.8</p>
	<p>NARs</p> <p>Procedures and technical skills acquired under appropriate supervision during undergraduate and house officer training:</p>	<p>Program</p>
	<p>4.2.8. Perform venipuncture and collect blood samples.</p> <p>4.2.9. Insert a cannula into peripheral veins.</p> <p>4.2.10. Give intramuscular, subcutaneous, intradermal, and intravenous injections.</p> <p>4.2.11. Perform suturing of superficial wounds.</p> <p>4.2.12. Demonstrate competency in cardiopulmonary resuscitation and basic life-support.</p>	<p>C.2.9</p> <p>C.2.10</p> <p>C.2.11</p> <p>C.2.12</p> <p>C.2.13</p>



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	<p>4.2.13. Administer compulsory childhood vaccines. 4.2.14. Perform and interpret basic bedside laboratory tests. 4.2.15. Perform and interpret ECG. 4.2.16. Administer basic oxygen therapy. 4.2.17. Perform and interpret basic respiratory function tests. 4.2.18. Use a nebulizer for administration of inhalation therapy. 4.2.19. Insert a nasogastric tube. 4.2.20. Perform bladder catheterization. 4.2.21. Perform procedure of normal labor. 4.2.22. Adopt suitable measures for infection control.</p>	<p>C.2.14 C.2.15 C.2.16 C.2.17 C.2.17 C.2.18 C.2.19 C.2.20 C.2.21 C.2.22</p>
4.3	<p>NARS</p> <p>Professional Attitude and Behavioral Skills:</p>	<p>C3 Program</p>



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<p>4.3.1 Adopt an empathic and holistic approach to the patients and their problems.</p> <p>4.3.2 Respect patients' rights and involve them and /or their caretakers in management decisions.</p> <p>4.3.3. Understand and respect the different cultural beliefs and values in the community they serve.</p> <p>4.3.4 Recognize the important role played by other health care professions in patients' management.</p> <p>4.3.5 Be aware of and understand the national code of ethics issued by the Egyptian Medical Syndicate.</p> <p>4.3.6 Counsel patients and families suffering from different conditions.</p> <p>House Officers should be able, under appropriate supervision, to:</p> <p>4.3.7. Ensure confidentiality and privacy of patients' information.</p> <p>4.3.8. Treat all patients equally, and avoid stigmatizing any category regardless of beliefs, culture, and behaviors.</p> <p>4.3.9. Demonstrate respect and work cooperatively with other health care professions for effective patient management.</p> <p>4.3.10. Be willing to share in all types of inter-professional activities including collaborative and shared learning.</p> <p>4.3.11. Ensure the cost effectiveness of health care management.</p>	<p>C3.1</p> <p>C3.2</p> <p>C3.3</p> <p>C3.4</p> <p>C3.5</p> <p>C3.6</p> <p>C3.7</p> <p>C3.8</p> <p>C3.9</p> <p>C3.10</p> <p>C3.11</p>
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4.4	NARS Communication skills:	C4 Program Communication skills:
	<p>4.4.1. Communicate clearly, sensitively and effectively with patients and their relatives, and colleagues from a variety of health and social care professions.</p> <p>4.4.2. Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.</p> <p>4.4.3. Cope with situations where communication is difficult including breaking bad news.</p> <p>4.4.4. Show compassion to the patients and their relatives in situations of stress and grief.</p> <p>4.4.5. Honor and respect patients and their relatives, superiors, colleagues and any other member of the health profession.</p>	<p>C4.1</p> <p>C4.2</p> <p>C4.3</p> <p>C4.4</p> <p>C4.5</p>
5	5.NARS General and Transferable Skills	D Program General and Transferable Skills
5.1	Be prepared for the lifelong learning needs of the medical profession.	D1
5.2	Use information and communication technology effectively in the field of medical practice.	D2
5.3	Retrieve, manage, and manipulate information by all means, including electronic means.	D3



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5.4	Present information clearly in written, electronic and oral forms.	D4
5.5	Communicate ideas and arguments effectively.	D5
5.6	Work effectively within a team.	D7
5.7	Analyze and use numerical data including the use of simple statistical methods).	D8
5.8	House Officers should be able to: A. Use Evidence Based Medicine in management decisions. B. Effectively manage time and resources and set priorities. C. Work efficiently within the health care team and as an effective team leader. D. Solve problems related to patients, work management, and among colleagues. E. Cope with a changing work environment. F. Apply safety and infection control measures during practice. G. Evaluate their work and that of others using constructive feedback.	D9 D6 D10 D11 D12 D13 D14



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3. Academic standards:

Faculty of Medicine, Minia university adopted the National Academic Reference Standards (NARS/2009) prepared by the National Authority for Quality Assurance and Accreditation of Education (NAQAAE). The program was modified according to(NARS/ 2017) after making and reviewing gap analysis(gap analysis is enclosed)

These standards represent the minimum academic quality requirements which the government regards as appropriate and reasonable to protect the interests of the students, the reputation of individual faculties, and the community as a whole.



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4. Curriculum structure and contents:

A- Program duration: 6 years plus a house officer year

B- Program structure:

Percentage of courses forming the different components of the academic structure of the program:

Total number of Hours : lecture 2320

Practical 2455

Total 4775

A- Basic science: $2100/4775=44\%$

Language Science: $30/4775 =0.6\%$

Behavioral science: $60/4775 =1.3\%$

Computer science: $60 /4775=1.3\%$

B- Clinical sciences: $2505/4775 = 52.4\%$

Field Training= $20 /4775=0.4\%$

1-Basic science stage: 3 years.

2- Clinical stage: 3 years.



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C-Total number of hours per week: 36 hours

1- Lectures: 18 hours per week

2- Lab. Training / Clinical small group teaching: 18 hours per week

D- All courses are compulsory.

Credit hours is not currently applicable for undergraduate medical education.

5. Program courses:

Program courses and regulations for program completion:



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1 - First year: Duration: 30 weeks

Code	Course title	Hours per week		Total Hours	ILOs Program covered
		Lab	Lecture		
AN 111	Anatomy and Embryology	4	4	240	A.1.1, A.1.3, A.2, A.3, B.1,C.1.8, D.1.4, D.1.5, D.1.6, D.1.7
HS 112	Histology and cell biology	2	2	120	A.1.1, A.2, A.5.1, C.1.8, D.1.4, D.1.5, D.1.6, D.1.7
PY 113	Human Physiology	2	5	210	A.1.1,A.1.2,A.2,B.1,C.1.8,D.1.4,D.1.5,D.1.6,D.1.7,
BC 114	Medical Biochemistry	2/3 alterative	2	135	A.1.1,A.1.2,A.2,A.3,A.5.1, A.7,B.1,C.1.7,C.1.8,C.1.15,D.1.4,D.1.5,D.1.6,D.1.7
EN 115	English language	-	1	30	A.16, D.1.5, D.1.6,D.1.7
CO 116	Computer sciences	1	1	60	A.14, D.1.2, D.1.3, D.1.4, D.1.5,D.1.6, D.1.7



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2- Second Year: Duration: 30 weeks

Code	Course title	Hours per week		Total Hours	ILO Program covered
		Lab	lecture		
AN211	Anatomy and Embryology	4	4	240	A.1.1, A.1.3, A.2, A.3, B.1,C.1.8, D.1.4, D.1.5, D.1.6, D.1.7
HS212	Histology and cell biology	2	2	120	A.1.1, A.2, A.5.1, C.1.8, D.1.4, D.1.5, D.1.6, D.1.7
PY213	Human Physiology	2	5	210	A.1.1,A.1.2,A.2,B.1,C.1.8, D.1.4,D.1.5,D.1.6,D.1.7,
BC214	Medical Biochemistry	2	3	135	A.1.1,A.1.2,A.2,A.5.1, A.7, B.1,C.1.7,C.1.8,C.1.15,D.1.4, D.1.5,D.1.6,D.1.7
PS215	Behavioral science and Ethics	-	1	30	C.2.2,C.2.3,C.2.4,C.2.5,C.2.6,C.2.7,C.2.8,C.2.9C.2.10,D.1.1D.1.5,D.1.6,D.1.7,D.1.12, D.2.1,D.2.2,D.2.3,D.2.4,D.2.5

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رؤية الكلية: تحقيق الريادة على المستوى المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

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Code	Course title	Hours per week		Total Hours	ILO Program covered
		Lab	Lecture		
PA 311	Pathology	4	4	240	A.2,A.3,A.4,A.5.1,A.5.4,A.7, B.1, C.1.7, C.1.8,D.1.5, D.1.4,D.1.6,D.1.7,
FA 312	Medical pharmacology	2	4	180	A.2, A.5.4, A.6.1, A.6.2, A.6.4, C.1.5, C.1.6, C.1.8, D.1.4, D.1.5, D.1.6, D.1.7
MB 313	Medical Microbiology and immunology	2	3	150	A.2, A.3, A.4,A.5.1,A.5.4,A.5.6,A.6.2,A.7, A. 10, C.1.7,C.1.8,C.1.9,C.1.15,C.1.22,C.2.9,C.2.10,D.1.4, D.1.5, D.1.6, D.1.7
PR 314	Medical parasitology	2	2	120	A.2, A.4, A.5.1,A.5.4, A.5.6,A.6.2, A.7,



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					C.1.7,C.1.8,C.1.15,D.1. D.1.5,D.1.6,D.1.7
PS 315	Psychology	1	1	30	A.2, A.3, A.4, A.5.1,A.5.2, A.5.3, A.5.4,A.5.5, A.5.6, A.6.2, A.8,A.9, A.10, A.11, A.14,B.9.1,B.9.2, B.10.1,B.10.2, C.1.4, C.1.7,C.1.14, C.1.22, C.2.3,C.2.9, C.2.10, D.1.1,D.1.3, D.1.4, D.1.5,D.1.6, D.1.7, D.1.8,D.1.9, D.1.10, D.1.11,D.1.12, D.1.13, D.1.14,D.2.1, D.2.2, D.2.3,D.2.4, D.2.5

3- **Third Year:** Duration: 30 weeks



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4- Fourth Year:Duration: 32 weeks.

Code	Course title	Hours per week		Total weeks for clinical rounds	Program ILO covered
		Clinical rounds/lab	Lectures		
CM414	Community Medicine	2	4	-64 hours clinical + 2 weeks field training	A.2.1, A.3, A.4.5,A.5.2,A.5.1, A.5.6,A.5.5,A.5.4, A.5.3,A.5.7.B.4,B.7,B.8,B.9.1, B.10.1,B.10.2, B.11 C.2.22, C.2.23,C.3.3,C.3.10, C.3.12 ,C.13.,D.1 ,D.3,D.4,D.5,D.6,D.7,D.8,D.9,D.11,D.12, D.13,D.14, D.16, D. 17.



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Quality Assurance Unit

FT413	Forensic Medicine & toxicology	2 (lab)	3	64 hours clinical + 2 weeks clinical training	A.1.1,A.1.3,A.2.2,A.2.3,A.4.4,A.6,A.7,A.8,A.16 B.2.1, B.2.2, B.3,B.4, B.5, B.6,B.7,B.8,B.9.1,B.9.2,B.10.1,B.10.2,B.12 C.3.1,C.3.2,C.3.3,C.3.4,C.3.5,C.3.6, C.3.7,C.3.8,C.3.9,C3.10,C.4.1,C.4.2,C.4.3, C.4.4,C.4.5, D.1, D.3,D.4,D.5,D.6, D.7, D.9, D.11, D.12,D.13,D.14
OO411	ophthalmology	18	3	8	A.1.1,A.2.1,A.2.2,A.3,A.4.1,A.4.2,A.4.3, A.4.4,A.4.6,A.4.7,A.7,A.8, B.1,B.2.1,B.2.2,B.3,B.4,B.5,B.6,B.7,B.8, B.9.1,B.10.1,B.10.2 C.2.1,C.2.4,C.2.6,C.2.11,C.2.15,C.3.4,C.3.6, C.3.7,C.3.9,C.3.10,C.3.11,C.4.1,C.4.2,C.4.3, C.4.4,C.4.5,D.1,D.3,D.4,D.5,D.6,D.7, D.9,D.11,D.12,D.13,D.14
EN412	E.N.T	16	2	4	,A.2, A.4, A.5.1, A.5.4, A.5.6 ,A.6.2, A.6.3, A.7, A.8, A.11 ,B.1, B.2, B.2.1, B.2.2, B.3, B.4 ,B.5, B.6, B.7, B.8, B.9.1, B.9.2 ,C.1.1, C.1.2, C.1.3, C.1.4, C.1.5 ,C.1.6, C.1.8, C.1.9, C.1.10 ,C.2.1C.1.22,C.1.19,C.1.11, ,C.2.9, C.2.10, D.1.1 C.2.6, ,D.1.4, D.1.5, D.1.6 D.1.3, ,D.1.11D.1.10, D.1.9, D.1.7, ,D.2.1D.1.14,D.1.13,D.1.12,



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Quality Assurance Unit

						,D.2.2, D.2.3, D.2.4, D.2.5
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وحدة ضمان الجودة

Quality Assurance Unit

5-Fifth year: 36 weeks Duration

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رؤية الكلية: تحقيق الريادة على المستوى المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

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Quality Assurance Unit

Code	Course title	Hours per week		Total weeks for clinical rounds	program ILO covered.
		Clinical rounds	Lectures		
GM511	Internal medicine & Its specialties	15	6	24	,A.2, A.3, A.4, A.5.1, A.5.4, A.5.5, A.5.6, A.6.2, A.6.4, A.7, A.8, A.10, A.11, B.1, B.2, B.2.1, B.2.2, B.3, B.4, B.5, B.6, B.7, B.8, B.9.1, B.9.2, C.1.1, C.1.2, C.1.3, C.1.4, C.1.5, C.1.6, C.1.7, C.1.8, C.1.9, C.1.11, C.1.13, C.1.15, C.1.10, C.1.16, C.1.17, C.1.18, C.1.19, C.1.2, C.2.6, C.2.9, C.1.22, D.1.1, D.1.3, D.1.4, C.2.10, D.1.5, D.1.6, D.1.7, D.1.9, D.1.10, D.1.11, D.1.12, D.1.13, D.2.3, D.2.2, D.2.1, D.1.14, A.1.3, A.1.4, D.2.4, D.2.5
PE512	Pediatrics	18	3	12	,A.1.3, A.2, A.3, A.4, A.5.1, A.5.4, A.5.5, A.5.6, A.6.2, A.7, A.11, B.1, B.2, B.2.1, B.2.2, B.3, B.4, B.5, B.6, B.7, B.8



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					<p>B11, C.1.1, B.9.1, B.9.2, ,C.1.2,C2.23 ,C.1.3, C.1.4, C.1.5, C.1.6 ,C.1.8, C.1.9, C.1.10, C.1.11 ,C.1.14, C.1.17, C.1.18, C.1.19 C.1.22, C.2.1, C.2.6, C2.23 D.1.1, D.1.3, ,,C.2.9,C.2.10, D.1.7, ,D.1.4,D.1.5, D.1.6 D.1.9,D.1.10, D.1.11, D.1.12, D.1.14, D.2.1, D.2.2, ,D.1.13 D.2.4, D.2.5,D.2.3</p>
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Quality Assurance Unit

6-Sixth year: Duration 36 weeks

Code	Course title	Hours per week		Total weeks for clinical rounds	program ILO covered
		Clinical rounds	Lectures		
GS611	General surgery its & specialties	16	6	24	,A.2, A.4, A.5.1, A.5.4, A.5.6, A.6.2, A.6.3, A.6.4, A.7, A.8, A.11, A.12, B.1, B.2, B.2.1, B.2.2, B.3, B.4, B.5, B.6, B.7, B.8, B.9.1, B.9.2, C.1.1, C.1.2, C.1.3, C.1.4, C.1.5, C.1.6, C.1.8, C.1.9, C.1.10, C.1.11, C.1.12, C.1.17, C.1.19, C.1.20, C.1.22, C.2.1, C.2.6, C.2.9, C.2.10, D.1.1, D.1.3, D.1.4, D.1.5, D.1.6, D.1.7, D.1.9, D.1.10, D.1.11, D.1.12, D.1.13, D.1.14, D.2.1, D.2.2, D.2.3, D.2.4, D.2.5
GO 612	Obstetrics & Gynecology	18	3	12	,A.2, A.3, A.4, A.5.1, A.5.4, A.5.5, A.5.6, A.6.2, A.6.3, A.7, A.8, A.11, B.1, B.2, B.2.1, B.2.2, B.3, B.4, B.5, B.6, B.7, B.8, B.9.1, B.9.2, C.1.1, C.1.2, C.1.3, C.1.4, C.1.5, C.1.6, C.1.8, C.1.9, C.1.10, C.1.11, C.1.12, C.1.17, C.1.19, C.1.20, C.1.22, C.2.1, C.2.23

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رؤية الكلية: تحقيق الريادة على المستوى المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

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						,C.2.6, C.2.9, C.2.10, D.1.1, D.1.3 ,D.1.4, D.1.5, D.1.6, D.1.7, D.1.9 ,D.1.10, D.1.11, D.1.12, D.1.13 ,D.2.1, D.2.2, D.2.3, D.2.4 D.1.14,D2.5
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6- Student teaching methods

6.1. Lecture (brain storming, interactive presentation, discussion)

*Mention ideas, thoughts, or other solutions that focus on a specific topic which Stimulates thought and creativity in group discussions.

* Verbal presentation of information by the teacher, in which presentation of content is supplemented with a variety of methods like interactions, visual aids, and instructional materials.

6.2. Practical (clinical /lab.) discuss practice

Discussion related to the learning objectives presented by a panel of individuals or content experts.

Method in which the teacher presents the steps necessary for the completion of a procedure or clinical task or activity

A representation of a real or hypothetical patient management situation .

*Opportunity for students to practice or apply (with models, simulated patients, or real patients) the content presented in theoretical sessions. The teacher explains procedures or routines, demonstrates tasks, models the correct performance of the skill, and observes and interacts with students while providing ongoing feedback

Learning situation outside the regular class room in which students travel to another environment under staff supervision.



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Quality Assurance Unit

6.3 Small group discussion

Topic discussion presented by experts and interactive discussion between students and teacher in which student share their thoughts, questions and ideas

Interactive process in which students share their ideas, thoughts, questions, and answers in a group setting with a facilitator.

6.4. Outpatient clinic and in patient ward (Bed side tutorial method).

Methods in which the teaching staff member presents the steps necessary for performing a procedure or clinical examination.

Students play out roles in a simulated situation that relates to one or more learning objectives. A representation of a real or hypothetical patient management situation).

6.5. Tutorial classes, case study and problem solving

Data presented by one or more student under supervision of a tutor.

Using realistic scenarios that focus on a specific topic, or problem. Students typically read, study, and react to the case study individually or in small groups

6.6. Field visits



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Learning situation outside the regular classroom, in which Students travel to another location in a or outside the facility to learn in a classroom.

6.7. Skill lab

Allow chance for students to practice (with models, simulated patients, or real patients) the content presented in theoretical sessions. The teaching staff explains procedures, demonstrates tasks, models the correct performance of the skill, and observes and interacts with students while performing the procedures.

6.8 Assignments

A tasks allocated to student or more as a part of course study.



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Quality Assurance Unit

Matrix between Teaching methods and Indented learning outcomes:

<u>Teaching Methods</u>	<u>Type of Learning objective/ILO</u>
Lecture	Knowledge ILOS Intellectual skills
Practical (clinical /lab.) discuss	Knowledge ILOS Practical and professional skills Intellectual skills
Small group discussion	Knowledge ILOS Intellectual skills Practical and professional skills Communication skills
Outpatient clinic and in patient ward (Bed side tutorial method)	Practical and professional skills
Tutorial classes, case study and problem solving.	Intellectual skills General and transferrable skills
Field visits	Communication skills



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	General and transferrable skills
Skill lab	Practical and professional skills
Assignments	Intellectual skills General and transferrable skills
Asynchronous learning available since 2020 at university platform	Knowledge ILOS Intellectual skills

7-Student assessment method:

7.1 Written exams

An essay questions can be written on any subject, asking students to read and then answer questions to check their understanding of the reading, multiple-choice, true-false, matching, short-answer assessment items, and a brief case or situation is provided with information about a situation and several objective questions,

7.2. Oral examination

Examiners discuss one or more students about what they know about specific topics or what about management plan * in specific situations. This may take place in a classroom setting or when working with patients.



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7.3. Practical/ Clinical examination

Students rotate through a series of stations Where they answer questions (orally or written), or perform tasks under observation which assess knowledge, skills, and attitudes.

7.4. Objective Structured Clinical Examination (OSCE)/ Objective Structured Practical Examination (OSPE)

A structured practical examination that can be used to assess knowledge, skills, and demonstrated attitudes. It is an approach to assessment that involves creating a series of stations through which students rotate and where they perform certain tasks.

7.5. Others

** Drills, quizzes, and practice tests

Drills are verbal question and answer during a classroom or practical session to assess understanding and ideas expressions. Quizzes and practice tests are short type of written examinations and are designed to help and prepare students for a final assessment.

**Direct observation

The assessor observes a student performing a skill. This may take place in a simulated situation (e.g.anatomic model) or with patients or during doing an experiment.

**Clinical rounds



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The teacher asks the students questions while rounding in the patient room

** Logbooks (casebooks)

list of skills or tasks that students should be able to perform. These tasks are derived from learning objectives for the course.

** Assignments

Matrix between Student assessment and types of Indented learning outcomes

<u>Student assessment</u>	Type of Learning objective/ILO	%	
Written exams	Knowledge ILOS	Midterm	20%
	Intellectual skills	Final	50%
Oral examination	Knowledge ILOS, Intellectual skills Practical and professional skills	30%	
Practical/ Clinical examination	Knowledge, Intellectual skills, Practical and	30%	



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	General	
Objective Structured Clinical Examination (OSCE)/ Objective Structured Practical Examination (OSPE)	Practical, intellectual, general	30%
Others: Drills, quizzes, and practice tests Direct observation Clinical rounds Logbooks (casebooks) Assignments	Knowledge ILOS, Intellectual skills Practical, intellectual, general Practical, intellectual, general Practical, intellectual, general Practical, intellectual, general	30%
Total		100%



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8. Program admission requirements:

Requirements for enrollment to Faculty of Medicine, Minia University:

- a- Graduates that got the Egyptian General Secondary Certificate, (Scientific Section) or those equivalent certificates awarded by Arabic and Foreign Countries. Criteria of selection and acceptance for enrollment is principally organized and managed by “Universities’ Admission Office, Ministry of Higher Education”.
- b- The Courses in Biology, Physics and Chemistry must be included within the secondary education program
- c- Enrollment of students transferred from other faculties inside or outside Egypt is accepted according to the regulations of the Supreme Council of Higher Universities

9. Regulation for progression and completion:

Students at the Faculty of Medicine must pass a theoretical and practical education program for the 6 years. For the students to be transferred from one academic year to the next, he/she is required to have successfully passed in all subjects either in the exam of first or second turns, however, the student of the first grade may still be transferred if he/she has failed in not more than two basic medical subjects regardless the result of complementary subjects. Students “carrying” subjects from first year should re-sit for their "failed" subjects during the second academic year. Failed student (in more than 2 basic subjects) in the first and second exam turns for first grade he or she will stay for another year, if not pass these failed subjects, he or she will be obligated to change the program. Failed student of the second grade will stay for another year if not pass he or she or she will be external student for one year. Once an "external" student succeeded in his/her examinations for first year, this will allow him/her transferred to the following year; he/she automatically becomes registered as "regular" student again.

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وحدة ضمان الجودة

Quality Assurance Unit

To progress to the third year the students must pass all courses of the first and second years except complementary subjects. To path to the fourth year the student must pass all subjects if failed he or she will stay for another year if not pass he or she or she will be external student for 3 years. The student passes automatically to the fifth grade regardless the results and the same for sixth grade. To graduate the students must pass all medical courses and complementary courses.

*

Internship/Pre-registration house officer year (PRHO):

The students must spend twelve months rotating between different specialties Of Minia University Hospitals and/or other Ministry of health hospitals. They spend two months in each of pediatric, surgery, internal medicine, obstetrics and gynecology, emergency medicine, and anesthesia. They have the right to one specialty as elective to spend additional two months. All the activities of the students during this year are under supervision of their residents. The student should get a pass training certificate at the end of this year to a Bachelor degree of in medicine and surgery.

10. Program evaluation:

The institution has set a system for program evaluation:

Evaluator	Tool	Sample
1- Senior students	-Questionnaire -Interview	1-Sixth year students 2-House officers
2- Alumni	-Questionnaire -Interview	.1-Consultants of the medical syndicate

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رؤية الكلية: تحقيق الريادة على المستوي المحلي وترتيب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع

رسالة الكلية: اعداد طبيا قادرا على المنافسة في سوق العمل محليا ودوليا وباحثا قادرا على الابتكار وتقديم رعاية صحية مجتمعية تحقق اهداف التنمية المستدامة لرؤية مصر ٢٠٣٠ من خلال تقديم برامج تعليمية مطورة وتهيئة بيئة رقمية تحقق معايير الجودة والاعتماد



كلية الطب

Faculty of Medicine



وحدة ضمان الجودة

Quality Assurance Unit

		2-Representative Governmental and governmental institutions organizations 3-Postgraduate students 4-Fresh graduates
3- Stakeholders	-Questionnaire	Directors and heads of governmental and non-governmental hospitals organizations and institutions.
4-External Evaluator(s) -External Examiner(s)	-Questionnaire -reports	Peers and staff from other Faculties
5-others	-Conference	All 4 categories mentioned previously



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وحدة ضمان الجودة

Quality Assurance Unit

Matrix of program aims and intended program's learning outcomes Faculty of Medicine, Minia University

	Program objectives	Educational domain	ILOs
1.1	Keep normal health, provide primary health care. manage common health problems in the society.	Performance skill	A.1,A.2,A.3,A.4,A.5,A.7,A.8,A.9,A.10,A.11,A.12,A.13,A.14 B.1,B.2,B.3,B.4,B.5,B.6,B.7,B.8,B.9,B.11 C.1,C.2.1,C.2.2,C.2.3,C.2.4,C.2.5,C.2.6,C.2.7,C.2.8,C.2.9,C.2.10,C.2.11,C.2.12,C.2.13,C.2.14,C.2.15,C.2.16,C.2.17,C.2.18,C.2.19,C.2.20,C.2.21,C.2.22.C.3.6,C.3.11 D.9,D.11,D.12
1.2	Know the importance of a good doctor/patient relationship and how to deal with his colleague, seniors, and patients ethically.	Affective skill	A.6,C.2.2,C.2.3,c.3.1,c.3.2,c.3.3,C.3.4,C.3.5,C.3.6,C.3.7,C.3.8,C.3.9,C.4.1,C.4.2,C.4.3,C.4.4,C.4.5, D.5,D.7,D.10
1.3	observe rules of medical ethics	Cognitive	A.6 , B.12, C.3.2,c.3.3,C.3.5,C.3.7,C.3.8,C.3.9, C.4.1,C.4.2,C.4.3,C.4.4,C.4.5, D.7,D.10,
1.4	Develop appropriate communication, clinical and practical skills.	Performance skill	A.15,B.2,B.3,B.4,B.5,B.6,C.2.2,C.2.4,C.2.5,C.2.6,C.2.9,C.2.10,C.2.11,C.2.12,C.2.13,C.2.14,C.2.15,C.2.16,C.2.17,C.2.18,C.2.19, C.2.20,C.2.21,C.2.22,D.2,D.5,D.6,D.7,D.10,D.12,D.13



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1.5	Deal by good respectable attitudes and professionalism.	Affective skills	B.2,B.3,B.4,B.5,B.6,B.8,C.2.1,C.2.3,c.3.2,c.3.3,C.3.4,C.3.7,C.3.8, C.4.1,C.4.2,C.4.3,C.4.4,C.4.5, D.10,
1.6	Guide to life-long learning and how to earn knowledge.	Affective skill	A.14,A.15,B.8,C.1,C.2.4,C.2.8,C.2.9,C.2.10,C.2.11,C.2.12,C.2.13,C.2.14,C.2.15,C.2.16,C.2.17,C.2.18,C.2.19,C.2.20,C.2.21,C.2.22,C.3.10 D.1,D.2,D.3,D.4,D.5,D.6,D.8,D.12,D.14
1.7	adapt in post- graduate field.	Affective skill	A.7,A.15,B.5,B.6,B.7,B.8,B.10.1,C.2.1,C.2.3,C.2.4,C.2.5,C.2.6, C.2.9,C.2.10,C.2.11,C.2.12,C.2.13,C.2.14,C.2.15,C.2.16,C.2.17, C.2.18,C.2.19,C.2.20,C.2.21,C.2.22,C.2.23,c.3.2,c.3.3,C.3.11,C.3.12,C3.13,D.11,D.16,D.17.
1.8	Make research studies and develop basic administrative capabilities.	Affective skill	A.8,A.13,A.15,B.8,B.10,C.1,C.2.7.D.13

Medical Undergraduate Program specifications

A. Basic information

Program title: Bachelor's degree of medicine and surgery (M.B.B.CH) Faculty of Medicine – Minia University

Program type: Single program.

Program duration: 6 years (to be reevaluated every 6 years).

University: Minia

Faculty: Faculty of Medicine

Departments: sixteen (16) departments including:

- 1- Human anatomy and embryology
- 2- Medical Physiology
- 3- Histology and cell biology
- 4- Medical Biochemistry
- 5- Pathology
- 6- Medical Pharmacology
- 7- Medical Microbiology and Immunology
- 8- Medical Parasitology

مجلس كلية الطب البشري
رقمه (٧٠٤٤٠٠)
بتاريخ ٢٠٢٤/٠٤/٠٤

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رؤية الكلية: تحقيق الريادة على المستوى المحلى وتدريب عالمي متقدم في التعليم والبحث الطبي وتقديم الرعاية الصحية المتكاملة للمجتمع
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وتهيئة بيئة ريفية تحقق معايير الجودة والاعتماد