

**Faculty of Medicine - Cairo University
Program Specification for MBBCh (2015/2016)**



Cairo University



Faculty of Medicine

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A- Basic Information

1. **Program Title:** Bachelor of Medicine and Surgery MBBCh

2. **Program Type:** Single

3. **Departments:**

Human anatomy and Embryology, Histology, Medical Physiology, Medical Biochemistry, Psychiatry, Pathology, Medical Pharmacology, Medical Microbiology and Immunology, Parasitology, Ophthalmology, Ear-Nose-Throat, Forensic Medicine and Clinical Toxicology, Community Medicine, Pediatrics, Obstetrics and Gynaecology, Internal Medicine and General Surgery.

4. **Coordinator:**

Vice Dean of Education and Student Affairs: Professor Hala Salah Eldin

5. **Date of program specifications approval by :**

Faculty Council Sep 2015

B- Professional Information

1. Program Aims

The aim of the program is to provide the graduate with educational experience necessary for further training and practice in medicine through:

1. A core body of scientific knowledge, skills and attitudes essential for the practice in medicine.
2. Diagnostic, problem solving and decision-making skills necessary for proper evaluation and management of common diseases and emergencies.
3. Awareness and participation in the social and community aspects of health care.
4. Appropriate ethical and professional skills necessary for establishment of excellent communication with patients and colleagues.
5. Lifelong learning competencies necessary for continuous professional development.
6. Research methodology as related to medical practice.

2. Academic Standards

The Program Intended Learning Outcomes (ILO's) are developed according to the National Academic Reference Standards (NARS) for Bachelor degree of medicine published by the National Authority for Quality Assurance and Accreditation of Education (NAQAAE) (January 2009).

3. Intended Learning Outcomes

a. Knowledge and Understanding

By the end of the program, the graduate will gain knowledge and understanding to be able to:

- a.1 Describe the normal structure and function of human body.
- a.2 Describe molecular, biochemical and cellular mechanisms needed in maintaining homeostasis.
- a.3 Identify the developmental changes in humans and the effect of growth and aging on individuals and their family.
- a.4 Describe basics of normal and abnormal human behaviors.
- a.5 Identify altered structure and function of humans in various diseases and conditions in relation to gender and age.
- a.6 Describe the common diseases and life-threatening conditions as regards etiology, pathogenesis, clinical features, differential diagnosis and complications throughout the different age groups.
- a.7 Define the principles of management for common diseases and life-threatening conditions including

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pharmacological basis of drugs, non-invasive and invasive interventions, basic pre- and post operative care, pain relief and palliative care.

- a.8 Describe the theoretical basis of professional, practical skills and evidence based medicine (EBM).
- a.9 Describe the role of genetics in health and disease and the basic principles of gene therapy and genetic counseling.
- a.10 Identify the determinants of health, principles of health promotion, disease prevention, early detection and control of common community health problems including disease surveillance and screening.
- a.11 Define the principles of management and appropriate quality concepts and processes required for healthcare facilities.
- a.12 Describe the epidemiologic principles and the effect of social and demographic patterns on disease and vulnerability.
- a.13 Describe the Egyptian health systems and different population-based approaches of health care including disease burden, quality of life and well-being.
- a.14 Recognize basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.
- a.15 Recognize basics of health and patient's safety and safety procedures during practical and clinical years.
- a.16 Define principles of clinical audit.

Professional Skills : (b, c, d, and e):

b. Practical and Clinical Skills

By the end of the program, the graduate will be able to:

- b.1 Demonstrate basic sciences' practical skills relevant to the future practice
- b.2 Interview and record a structured patient-centered history.
- b.3 Perform full physical examination appropriate to age and gender in acute and chronic clinical conditions.
- b.4 Assess the mental state of the patient.
- b.5 Construct appropriate management strategies both diagnostic and therapeutic for patients with common acute and chronic diseases including medical, psychiatric and surgical conditions.
- b.6 Design an initial plan of management for stabilization of injured and critically-ill patients.
- b.7 Perform first aid measures for injured and critically-ill patients.
- b.8 Work out drug dosage based on patient's criteria and health condition.
- b.9 Write safe prescriptions of different types of drugs.
- b.10 Conduct community diagnosis for prioritization of community health problems.

Procedures and technical skills acquired under appropriate supervision

By the end of the program, the graduate will acquire the model-based skills(using manikin and simulators) required to:

- b.11 Perform venepuncture and collect blood samples.
- b.12 Insert a cannula into peripheral veins.
- b.13 Practice enteral, parenteral, inhalational and topical methods for drug administration
- b.14 Perform suturing of superficial wounds.
- b.15 Demonstrate competency in cardiopulmonary resuscitation and basic life-support.
- b.16 Perform and interpret ECG during clinical rounds.
- b.17 Perform and interpret basic respiratory function tests.
- b.18 Use a nebulizer for administration of inhalation therapy.
- b.19 Administer basic oxygen therapy.
- b.20 Insert a nasogastric tube.

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- b.21 Perform bladder catheterization.
- b.22 Observe the procedure of normal labor.
- b.23 Perform and interpret basic bedside laboratory tests.
- b.24 Administer compulsory childhood vaccines in manikin.
- b.25 Adopt suitable measures for safety and infection control.

c. Professional Attitude and Behavioral Skills

By the end of the program, the graduates will acquire the skills required to:

- c.1 Adopt an empathic and holistic approach to patients and their problems, taking into consideration beliefs values, goals and concerns.
- c.2 Respect the patient's right to know and share in decision making as well as dignity, privacy, information confidentiality and autonomy.
- c.3 Understand and respect the different cultural beliefs and values regardless of their disabilities in the community they serve.
- c.4 Recognize the important role played by other health care professions in patients' management, respecting their contributions in patient's management regardless of degree or occupation.
- c.5 Apply the national code of ethics issued by the Egyptian Medical Syndicate.
(لائحة آداب المهنة الصادرة من نقابة الأطباء).
- c.6 Respect and follow the institutional code of conduct.
- c.7 Counsel patients suffering from different conditions as well as their families.
- c.8 Recognize one's own limitations of knowledge and skills referring patients to appropriate health facility at the appropriate stage.

d. Communication Skills:

By the end of the program, the graduate will be able to:

- d.1 Communicate clearly, sensitively and effectively with patients and their relatives and colleagues from a variety of health and social care professions.
- d.2 Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.
- d.3 Cope with situations where communication is difficult including breaking bad news.
- d.4 Show compassion to patients and their relatives in situations of stress and grief.
- d.5 Honor and respect patients and their relatives, superiors, colleagues and any other member of the health profession.
- d.6 Use communication styles to bring about behavioral change.

e. Intellectual Skills

By the end of the program, the graduate will acquire the skills required to:

- e.1 Integrate basic anatomical, biochemical and physiological facts with clinical data.
- e.2 Integrate the results obtained from history, clinical examination and investigational data into meaningful diagnostic formulation.
- e.3 Combine clinical and investigational data with evidence based knowledge and skill of deductive reasoning for clinical problem solving.
- e.4 Prioritize the medical problems and their differential diagnoses
- e.5 Design a management plan for common diseases and emergencies.
- e.6 Determine the different strategies for risk management of disease and injury.

- e.7 Design scientific research through the formulation of research questions pertinent to medicine and the collection, analysis and interpretation of medical data.

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e.8 Recognize and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to uncertain situations through proper counseling, consultation and referral.

f. General and Transferable Skills

By the end of the program, the graduate will acquire the skills required to:

- f.1 Adopt the principles of lifelong learning needs of the medical profession (continuous professional development; CPD).
- f.2 Use computers efficiently in reaching biomedical information to remain current with advances in knowledge and practice.
- f.3 Present information clearly in written, electronic and verbal forms
- f.4 Communicate ideas and arguments effectively
- f.5 Work effectively within a multidisciplinary team
- f.6 Manage time and resources effectively and set priorities
- f.7 Apply simple statistical methods.
- f.8 Apply English language as needed for appropriate learning and communication in relation to medicine.

4. Program Structure and Contents:

a - Program duration :

Six academic years followed by one year; clinical training of the house officers ;(Internship program).

The academic year starts at 3rd week of September; the duration varies according to the stage.

The study terminates by the end of the final examination period.

The Supreme Council of Higher Education determines the date of the midyear recess which is two weeks.

Preclinical stage :

It includes first, second and third academic years; the duration of each academic year is 30 weeks.

Clinical stage:

It includes: the fourth year (32week), fifth (32 weeks) and the sixth academic year (40 weeks).

b - Program structure:

- Total teaching hours in the program : 4688 hours
- Hours of Basic Sciences Courses: 2100 hours = 45%
- Hours of Social Sciences and Humanities Courses (Behavioral Sciences and English language): 60 hours = 1%
- Hours of Clinical Sciences Courses: 2528hours = 54%

5. Program-Courses:

Courses, Teaching Hours, Examination methods and Allocated Marks for First year:

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Human anatomy and embryology	ANA-101	120	120	- three hours written exam (including embryology) -Practical Exam	250

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				-Oral Exam	
Histology	HIS-102	60	60	- three hours written exam, -Practical Exam -Oral Exam	150
Physiology including biophysics	PHY-103	150 including 10 hours biophysics	60	- three hours written exam(including biophysics) -Practical Exam -Oral Exam	250
Biochemistry	BIO-104	75	60	- Three hrs written exam, -Practical Exam -Oral Exam	150
English language	ENG-118	30	-----	-one hour written exam,	-----

NB: All students should have ICDL as pre- requisite for graduation. IDCL is the International Computer Driving License.

Courses, Teaching Hours, Examination methods and Allocated Marks for Second year

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Human anatomy and embryology	ANA-201	120	120	- three hours written exam, -Practical Exam -Oral Exam	250
Histology	HIS-202	60	60	- three hours written exam, -Practical -Oral	150
Medical Physiology	PHY-203	150	60	- three hours written exam -Practical Exam -Oral Exam	250
Medical Biochemistry	BIO-204	75	60	- three hours written exam, -Practical Exam - Oral Exam	150
Behavioral Sciences including psychology	PSY-217	30	-----	one hour written exam	50

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Courses, Teaching Hours, Examinations and Allocated Marks for Third year

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Parasitology	PAR-305	60	60	Two and half hours Written exam ; -Practical Exam -Oral Exam	150
Pathology	PAT-306	120	120	-Two written exams , two hours each -Practical Exam -Oral Exam	300
Microbiology and Immunology	MIC-307	90	60	- Two and half hours Written exam ; -Practical Exam -Oral Exam	200
Medical Pharmacology	PHA-308	120	60	-Two written exams , two hours each -Practical Exam -Oral Exam	300

Courses Teaching Hours Examinations and Allocated Marks for Fourth year

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Forensic medicine and Clinical Toxicology	FOR-409	80	64 hours including two weeks Clinical training	- three hours written exam; -Clinical Exam -Oral Exam	200
Community Medicine	COM-410	128	64hour including two weeks field training	- three hours written exam; -Practical Exam -Oral Exam	300
Ophthalmology	OPH-411	80	8 weeks (120 hours)	- Two hours written exam; -Clinical Exam -Oral Exam	250
Ear-Nose-Throat	ENT-412	64	8 weeks (120 hours)	- two hours written exam; -Clinical Exam -Oral Exam	200

Courses, Teaching Hours Examinations and Allocated Marks for Fifth year

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Internal Medicine	MED-513	20 hours	6 weeks	Written exam (term exam) -Clinical exam	60

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Pediatric	PED-514	108	10 weeks (160 hours)	Two written exams: * The first exam for three hours * The second exam for two hours -Clinical exam -Oral exam	500
Obstetrics and Gynecology	OBG-515	108	10 weeks (180 hours)	Two written exams: * The first exam for three hrs * The second exam for two hrs -Clinical exam -Oral exam	500
General Surgery	SUR-516	20 hours	6 weeks (60hours)	Written exam (term exam) -Clinical exam	60

Courses, Teaching Hours Examinations and Allocated Marks for Sixth year

Course	Code	Teaching hours		Exams	Allocated marks
		Theoretical	Practical		
Internal Medicine and its specialties	MED-613	196 hours	20 weeks (280hours)	Three written exams for three hours -Clinical exam -Oral exam	840
General Surgery and its specialties	SUR-616	196 hours	20 weeks (308hours)	Three written exams for three hours each -Clinical exam -Oral exam	840

▪ **Internal Medicine includes the following Subspecialties for the undergraduate program:**

Chest diseases, Neurology, Psychiatry, Tropical Medicine, Dermatology, Venereal diseases and andrology, Rheumatology and Cardiovascular Diseases.

▪ **General Surgery includes the following Subspecialties for the undergraduate program:**

Orthopedic Surgery, Neurosurgery, Heart and Chest Surgery, Urosurgery, Anesthesia, Radiology and Casualty and Emergency.

▪ **House-officer training** is one year clinical training (Internship Program) .

6. Program admission requirement:

- a) Students with the highest secondary school grades are admitted through the admission office of the Ministry of Higher Education. No placement aptitude or achievement examination.
- b) Foreign Students present their documents to the foreign students department of the Ministry of Higher Education
- c) Transfer of Students :
 - Transference between Faculties is central at Cairo University.
 - Priority to students with highest Grades.
 - Excellent or very good grades only are accepted.

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- Within the first month of Faculty year.
- The work and residence of the student's father should be in Cairo.
- Transference from Universities located in great Cairo area or with different learning programs (e.g. Suez-Canal University) is not allowed.
- Transference after onset of clinical stage (fourth grade) is not allowed.
- Number of transferred students should not exceed 5% of registered students of each grade.
- Transference regulations are discussed and approved by the Faculty council for each coming year.

7. Regulations for progression and program completion:

Students are allowed to sit for an examination held in September in the course they have failed or did not sit for.

- Students should pass all courses of preclinical stage to be promoted to clinical stage.
- A student who fails in more than two courses has to repeat the academic year He can sit for reexamination for two years as regular student and for one other year as external student.
- Final year (6th grade) students can sit for exams for two years (October & June) twice after which still they can sit for exam as external students.

The Examination Dates and Upgrading Conditions:

Grade	May/June Exam	September Exam	Upgrade to next grade
First year	May	September	Can be promoted to second grade with two courses
Second year	May	September	Can be promoted to third year even he fails the Psychology and English exam.
Third year	May	September	Promoted to clinical stage only if he passes all studied courses
Fourth year	June	September	Promoted to next year only if he passes all studied courses
Fifth year	June	September	
Sixth year	October	June	As regular student for two years

8. Methods for Assessment:

Methods	Purpose (ILOs)
Written Examinations	a.Knowledge and Understanding: (a.1— a.16) e.Intellectual skills: (e.1— e.8)
Oral examination	a.Knowledge and Understanding: (a.1— a.16) e.Intellectual skills: (e.1— e.8) f.General and Transferable skills:(f.1—f.8)
Practical and Clinical Examination	b.Practical and Clinical Skills : (b.1—b.25) c. Professional Attitudes and Behavioral Skills:(c.1—c.8) e.Intellectual skills: (e.1— e.8) f.General and Transferable Skills:(f.1—f.8)

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9. Evaluation of Program Intended Learning Outcomes:

Evaluator	Tool	Samples
1. Senior students	Questionnaires Meetings	Sufficient Number
2. Alumni	Questionnaires Meetings	Sufficient Number
3. Faculty Staff	Questionnaires Meetings	Sufficient Number
4. Other Stakeholders	Questionnaires Meetings	Sufficient Number
5. External Evaluator	Revision and Audit: Reports	One / year
6. Internal Evaluators	Experts of Quality Unit and MEDC: Reports	Frequent Reports

10. Program-Courses ILOs Matrix :(Annex 1)

Sources: NARS - GMC - Tomorrow's doctor

Key sources of information about program can be found:

- Program validated document (Faculty Council September 2015)
- Students Handbook (revised annually)
- Faculty Bylaws
- Web address: www.kasralainy.edu.eg
- Vice Dean of Education and Student Affairs
- Vice Dean e- mail address: sa@kasralainy.edu.eg
- Medical Education Development Center(MEDC):0223684669-0223682457-0223689384-0223652106-0106029076- Fax 0223628439
- Quality Unit in MEDC