



Programme and Course Specifications

Bachelor of Medicine, Bachelor of Surgery

(M.B.B.Ch.)

University of Sirte – Faculty of Medicine

(2019/2020)

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Academic Standards and Requirements for M.B.B.Ch. Programme

General Information

Educational Institution	Sirte University
Faculty	Medicine
Programme Title	Medicine
Award	M.B.B.Ch. Bachelor of Medicine, Bachelor of Surgery
Programme Code	
Language	English
Departments Offering the Programme	Medicine Faculty Departments Sciences Faculty (for premedical year only)
Programme Coordinator	Dr. Hussain Amaigil
Date and Signature	September 2020

1. Programme Objectives:

- 1.1. Producing graduates with the required foundation of knowledge, understanding, practical skills and attitudes essential for the practice of medicine.
- 1.2. Providing international excellence in learning, teaching and training.
- 1.3. To ensure that the graduates meet the necessary academic standards to prepare them for a career of life-long learning and professional development.
- 1.4. Delivering programme courses in ways that will inspire students to become independent and active learners.

2. Academic Standards:

The programme objectives are comparable with other national and international programmes. And the programme emphasizes on research attainment, awareness of the social and community circumstances of health care and health service administration. Furthermore, the objectives are adapted to meet the local circumstances.

3. Admission Requirements:

In order to be accepted, students should obtain an excellent grades ($\geq 85\%$) in the General Libyan Secondary Education Certificate and the medical Sciences Branch of the General Libyan Secondary Education Certificate, and have to pass a competition exam of general & medical knowledge set by the Faculty of Medicine.

4. Intending Learning Outcomes (ILOs):

A. Knowledge and Understanding:

On successful completion of the programme, graduates will be able to:

- A1. Identify the normal structure and function of the human body systems at the level of molecules, biochemical reactions, cells, tissues and organs.
- A2. Identify the normal growth and development of the body systems.
- A3. Identify the abnormal structure, function, growth and development of the body tissues and their relevant disorders.
- A4. Describe the principles and the role of genetics in health and disease including the basics of gene therapy and genetic counseling.
- A5. Describe and count etiology, pathogenesis, clinical manifestations and prognosis of different diseases related to each body system, with emphasis on common diseases.
- A6. Classify microorganisms of medical importance with emphasis on: morphology, culture, antigenic structure, virulence, pathogenesis, clinical diseases they caused, diagnosis, treatment, prevention and control.
- A7. Describe the symptoms and signs, clinical manifestations, differential diagnosis, abnormal psychological responses of common mental and physical disorders.
- A8. Identify principles of prevention and management of the locally endemic diseases with emphasis on infective hepatitis and cutaneous Leishmaniasis, and COVID19.
- A9. State principles of early detection of malignancy and the screening methods.
- A10. Know the principles of early recognition and management of acute common medical and surgical emergencies.
- A11. Identify the common diagnostic procedures and the ability to select appropriate tests for detecting patients at risk for specific diseases.

- A12. Recognize the therapeutic principles for common health problems.
- A13. Recognize pharmacological principles of treatment, adverse drug reactions, drug interactions, and principles of safe prescribing.
- A14. State the principles of health education, basic biostatistics and clinical epidemiology
- A15. Identify the indications and the relative advantages and disadvantage of various management approaches to common clinical conditions.
- A16. Identify disability and its effect on the community and the principles of management including rehabilitation, institutional and community care.
- A17. Recognize the basic principles of health promotion and disease prevention including healthy life style (healthy nutrition, exercise, etc.), hygiene, immunization and procedures to avoid environmental and occupational hazards.
- A18. Recognize the systems of provision of health care, National Health Programmes.
- A19. State the different data resources and its use in practice and research.
- A20. Recognize the ethical and legal background of medical practice.
- A21. Define the scientific thinking and research methodologies in different medical sciences.
- A22. Apply the biostatistics tools and analytical methods to interpret scientific data.
- A23. Identify the English language as needed for appropriate medical learning.
- A24. Identify the local national health care system.

B. Intellectual Skills:

On successful completion of the programme, graduates will be able to:

- B1. Connect basic science knowledge and skills to clinical problems.
- B2. Conduct problem solving skills and decision making skills.
- B3. Analyze history and examination findings to reach a differential diagnosis and create a plan of further management.
- B4. Recognize critical illness and injury and be able to perform effective resuscitation.
- B5. Interpret all laboratory and radiological results accurately.
- B6. Analyze different malpractice problems.
- B7. Criticize scientific papers effectively.

C. Professional and Practical Skills:

On successful completion of the programme, graduates will be able to:

- C1. Distinguish between normal and abnormal tissues and organs in laboratory.
- C2. Diagnose different physical and mental disorders.
- C3. Perform common technical procedures relating to medical branches properly.
- C4. Apply the essential basic and clinical skills and diagnostic and therapeutic intervention skills
- C5. Perform a thorough clinical examination, with mental state assessment.
- C6. Comply with infection control guidelines.
- C7. Prescribe safely and effectively.
- C8. Retain effective medical records.

D. General and Transferable Skills:

On successful completion of the programme, graduates will be able to:

- D1. Communicate orally and by writing.
- D2. Present scientific ideas in oral, written, numerical, graphical and visual presentations.
- D3. Use appropriate IT skills in analyzing data, accessing information and preparing presentations.
- D4. Work effectively and flexibly as a member of a healthcare team, with respect and valuing the roles of colleagues.
- D5. Plan and manage their own work, including managing their own time and using different appropriate resources (lectures, textbooks, websites and the scientific literature).
- D6. Respect patient autonomy and adopt an empathetic approach to the patient/doctor relationship.
- D7. Keep up to date with advances in medical practice.

5. Programme Duration and Structure:

- **Duration:** 6 Academic Years
- **Structure:**
 - **Premedical Stage:** one year of courses given by the college of Sciences.
 - **First Basic Sciences Stage:** 2 Years.
 - First Medical Year.
 - Second Medical Year.
 - **Second Basic Sciences Stage:** 1 Year.
 - Third Medical Year.
 - **Third Clinical Stage:** 2 Years.
 - Fourth Medical Year.
 - Fifth Medical Year.
 - **Fourth Internship Stage:** 1 year served as internal doctors in the Teaching Ibn Sina Hospital.

6. The programme courses:

The Pre-medical year:

Course Title	Lectures hrs.	Practical hrs.	Total hrs.
General Biology	75	50	125
General Chemistry	75	50	125
Organic Chemistry	75	50	125
Physics	50	50	100
Biostatistics	50	50	100
English Language	50	-	50

The First Medical Year:

Code No.	Course Title	Lectures hrs.	Practical hrs.	Tutorial hrs.	Total hrs.	Programme ILOs Covered
AN711	Anatomy I	150	50	50	250	A1,A2,A22,A23,B1,B2,C1, D1-D5
PH712	Physiology I	150	50	50	250	A1,A3, A22,A23,B1,B2,B5, C1,C3, D1-D5
BI713	Biochemistry I	100	30	20	150	A1, A3,A4, A22,A23,B1,B2,B5, C1,C3, D1-D5
HI714	Histology I	70	30	20	120	A1,A22,A23,B1,B2,C1,D1-D5

The total hours of study in the first year 770

The Second Medical Year:

Code No.	Course Title	Lectures hrs.	Practical hrs.	Tutorial hrs.	Total hrs.	Programme ILOs Covered
AN721	Anatomy II	150	50	50	250	A1,A2,A22,A23,B1,B2,C1, D1-D5
PH722	Physiology II	150	50	50	250	A1,A3, A22,A23,B1,B2,B5, C1,C3, D1-D5
BI723	Biochemistry II	100	30	20	150	A1, A3,A4, A22,A23,B1,B2,B5, C1,C3, D1-D5
HI724	Histology II	70	30	20	120	A1,A22,A23,B1,B2,C1,D1-D5

The total hours of study in the second year 770

The Third Medical Year:

Code No.	Course Title	Lectures hrs.	Practical hrs.	Tutorial hrs.	Total hrs.	Programme ILOs Covered
PA731	Pathology	180	60	60	300	A3, A4, A5, A6,A22,A23,B1,B2,B5, C1,D1-D7
PM732	Pharmacology	180	60	60	300	A4, A11, A12,A19, A22,A23,B1,B2,B5,C3, C7, D1-D7
MI733	Microbiology	120	60	30	210	A6, A8,A12,A22,A23, B1,B2,B5,C3,C6,D1-D7
PR734	Parasitology	70	30	20	120	A6,A8, A12,A22,A23, B1,B2,B5,C3,C6,D1-D7

The total hours of study in the third year 930

The Fourth Medical Year:

Code No.	Course Title	Lectures hrs.	Practical hrs.	Tutorial hrs.	Total hrs.	Programme ILOs Covered
ME751	Medicine I	100	100	20	220	A5, A7,A10,A11, A12,A15,A19,A20,A21,A23, A24,B1-B7,C2-C8, D1-D7
GS752	Surgery I	100	100	20	220	A5, A7,A10,A11, A12,A15,A19,A20,A21,A23,A24, B1-B7,C2-C8, D1-D7
OG741	Obstetrics &Gynecology	100	100	20	220	A5, A7,A10,A11, A12,A13,A14,A15,A19,A20,A23,A24,B1-B7,C2-C8, D1-D7
CO742	Community Medicine	100	--	20	120	A5, A7,A8,A9, A10,A11, A12,A15,A16,A17, A18, A19,A20,A21,A22,A23,A24, B1-B7,C2-C8, D1-D7
OP743	Ophthalmology	100	50	15	165	A5, A7,A10,A11, A12,A13,A14,A15,A19,A20,A23,A24, B1-B7,C2-C8, D1-D7
FO744	Forensic Medicine & Toxicology	100	50	10	160	A5, A7,A10,A11, A12,A15,A18, A19,A20,A23,A24,B1-B7,C2-C8, D1-D7

The total hours of study in the fourth year 1125

The Fifth Medical Year:

Code No.	Course Title	Lectures hrs.	Practical hrs.	Tutorial hrs.	Total hrs.	Programme ILOs Covered
ME751	Medicine II	200	150	40	390	A5, A7,A10,A11, A12,A15,A19,A20,A21, A22,A23A24,B1-B7,C2-C8, D1-D7
GS752	Surgery II	200	150	40	390	A5, A7,A10,A11, A12,A15,A19,A20,A21,A22,A23, A24,B1-B7,C2-C8, D1-D7
PE753	Pediatrics	100	100	30	230	A5, A7,A10,A11, A12,A15,A19,A20,A21, A22,A23,A24,B1-B7,C2-C8, D1-D7

The total hours of study in the fifth year 1010

The internship: 12 months

Subjects	Duration	Total hrs.
Medicine	3 months , 42hrs/week	504
Surgery	3 months , 42hrs/week	504
Gynecology & Obstetrics	2 months , 42hrs/week	336
Pediatrics	2 months , 42hrs/week	336
Family & Community Medicine	1 month , 42hrs/week	168
Elective	1 month , 42hrs/week	168

7. Teaching and Learning Methods :

- Text books of the entire courses
- Course lecture notes by local teaching staff
- E-books on-line
- Google class room, Zoom,..etc.
- Video conference
- Simulator projects for lab training
- Seminars activity ,workshops, Case studies, Symposiums
- National and international conference activity
- Exchange Study groups

8. Evaluation Methods:

Evaluator	Tool
Senior Students	Questionnaire
Alumni	Questionnaire
Stakeholders (Employers)	Questionnaire
External Evaluator(s), External Examiner(s)	Report

9. Programme Continuation Requirements:

Academic Year	Continuation requirement
First year	Passing all the premedical courses
Second year	Passing at least two courses of the first year
Third year	Passing all the courses of the second year
Fourth year	Passing all the courses of the third year
Fifth year	Passing all courses of the fourth year
Sixth year-internship	Passing all the courses of the fifth and fourth years

10. Grades Categories:

Average	Range
Excellent	$\geq 85\%$
Very good	$\geq 75\% - < 85\%$
Good	$\geq 65\% - < 75\%$
Pass*	$\geq 60\% - < 65\%$
Weak	$\geq 35\% - < 60\%$
Very Weak	$\geq 0\% - < 35\%$

Only in subjects of the premedical year, the pass grade begins at 50%*

11. Programme Evaluation:

Evaluator	Method
Labor market	Questionnaire
Final year students	Questionnaire
Graduates	Passing the exam
Academic Staff	Reports
External Evaluator	Opinion poll and follow up
Others	

12. Learning Resources, Facilities and Equipment:

Learning resources:	Comment
Textbooks	Shortage in textbooks especially for basic sciences
Medical Journals and Periods	Not available
Web-based Resources	Partly available
Facilities and Equipment:	Comment
Class rooms	Need big halls for lecturing
Laboratories	Need to be work appropriately
Library	Need updating

13. References

- World Federation of Medical Education: <https://wfme.org>
- Quality Assurance Agency of UK: <https://www.qaa.ac.uk>
- Some Arabic Medical Schools:
 - Ain Shams University: <https://med.asu.edu.eg>
 - Cairo University: <https://cu.edu.eg>
 - King Saud University: <https://medicine.ksu.edu.sa>

Comments: Teaching staff file is attached.

