



University: Benha
Faculty of Medicine

**Program Specification for the undergraduate Bachelor of
Medicine & Surgery (M.B.B.Ch), اسم البرنامج 2010-2011**

A- Basic Information

1- Program title: اسم البرنامج Bachelor of Medicine and Surgery
(M.B.B.Ch.)

2- Program type:

طبيعة البرنامج : Single Double Multiple

3- Departments: الأقسام المسؤولة عن البرنامج

29 departments according to the faculty's by laws

They are: Human Anatomy & Embryology, Medical Physiology, Histology & Cell Biology, Medical Biochemistry, Pathology, Clinical Pharmacology, Medical Parasitology , Microbiology & Immunology, neuropsychiatry, Forensic medicine & Clinical Toxicology, Community medicine, Ophthalmology, Oto-Rhino-Laryngeology (E.N.T.), Pediatrics, General medicine & its subspecialties(Cardiology, Gastroenterology, Rheumatology.

Neuropsychiatry, Chest, Clinical pathology, Dermatology) , Obstetrics & Gynecology & General surgery& its subspecialties(Cardio-surgery, Neurosurgery, Urosurgery, Orthopedics).

4- Coordinator:

professor Ahmed Mahmod Koteb Elgazar vice dean for education & student affairs (professor of microbiology).

Assistant Coordinator: professor Mona Hussein Elmahdy, (professor of public health & consultant for curricula committee).

5- External evaluator (s): professor Salma Fouad Dowara professor of general surgery & vice director of Medical Education Development Center (MEDC) , faculty of medicine, Cairo university.

6- Last date of program specifications approval: تاريخ إقرار البرنامج
Faculty Council number 320 , dated , 18-7-2010 .

7- Number of students enrolled to the program: 2019 student.

8- Language used: English language.

9- Learning & teaching: Active teaching & learning

10- communication with the faculty through:

Web site: **www.bfom.edu.eg**

E-mail: **Bfom@yahoo.com**

Postal: **Benha, Benha faculty of medicine, Fared Nada street**

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B- Professional Information: تاريخ إقرار البرنامج

1- Program Aims: الأهداف العامة للبرنامج

The aim of the program is to provide the undergraduate educational experience necessary for further practice in any field of medicine including general practice, residency programs, medical research, public health or health service administration through providing:

1.1. Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met- with- in clinical practice with proper awareness of the social and community contexts of health care.

1.2. Basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship.

1.3. Basic scientific knowledge essential for following the rules of medical ethics .

1.4. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems.

1.5. Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with patients and colleagues.

1.6. Life long learning competencies necessary for continuous professional development.

1.7. Research education as related to medical practice & post graduation development

1.8. Basic administrative skills necessary for delivery of health service.

2- Intended Learning Outcomes (ILOs)

المخرجات التعليمية المستهدفة من البرنامج :

2. Knowledge and Understanding* المعرفة والفهم

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

2.1. a. Describe the normal structure and function of the human body and mind at the level of its system.

2.1.b. Describe the normal structure and function of the human body and mind at the molecular, biochemical, cellular, levels (including the principles of genetics),to maintain the body homeostasis .

2.1.c. Describe the normal growth and development of the human body and mind (at all stages, intrauterine, infancy, childhood ,adolescence, adults & geriatrics) & its impact on individuals & families .

2.1. d. Recognize the sound & altered human behavior .

2.1. e. Express English language as needed for learning.

2.2. Recognize the altered development, growth, structure and function of the body and mind that will be associated with common clinical conditions, likely to be seen by a new graduate .

2.3. Identify the risk factors (including the role of genetics in disease predisposition), pathogenesis the clinical manifestations and differential diagnosis of common diseases. As well as complications of diseases met with in common practice & the life threatening conditions (at all stages of life, intrauterine, infancy, childhood ,adolescence, adults & geriatrics).

2.4.a Describe the indications, the relative advantages and disadvantages of various therapeutic modalities (Pharmacological and non pharmacological) for common and life threatening illnesses .

2.4.b. Identify proper methods intervention for common and life threatening illnesses (whether non invasive and or, invasive) .

2.4.c. Identify the basics for pre- and post operative care .

2.4.d. Recognize methods for pain relief to ameliorate patients' sufferings.

2.5. a. Recognize the basic determinants of health, principles of disease prevention and the scientific basis and interpretation of various diagnostic modalities for early detection & establishing diagnosis of common community health problems.

2.5. b. Identify the Principle & the organization of the Egyptian health care system, the importance of responsiveness to changes in healthcare policy

2.5.c. Describe the principles of epidemiology and the epidemiological methods (research methodology), the basic principals governing population studies (demography) and biostatistics used for assessment of morbidity (diseases) & mortality (deaths), as well as the efficacy of some prevention and control strategies.

2.5. d. Recognize the principles of disease surveillance and screening.

2.5. e. Outline the basic issues for promoting health , preventing & controlling disease and disability

2.5. f. Recognize the importance of Population-based approaches to health care services to improve medical practice.

2.6. Identify the principles that govern ethical decision making in clinical practice ,the scope and impact of human rights law on persons and groups as well as the medico-legal aspect of medical malpractice and common medical errors.

2.7. Outline the basic issues for health & safety for the patients & themselves during undergraduate training and post-graduate practice.

2.8. Recognize the basic principles of formulating specific clinical sheets and the art of utilizing sources of information.

3. Practical and Clinical Skills مهارات مهنية وعملية

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

3.1. a. Demonstrate the normal anatomy of the body and of each of its major organ systems grossly and microscopically.

3.1. b. Perform tests showing the molecular, biochemical, and

cellular mechanisms that are important in maintaining the body's homeostasis.

3.1. c. Demonstrate the macroscopic and microscopic criteria of the altered structures and functions of the body and its major organ systems that are seen in various diseases and conditions.

3.1. d. Perform routine technical procedures; diagnostic and therapeutic (including life support).

3.1. e. Apply the principles of disease surveillance and screening, communicable disease control, health promotion and health needs assessment as well as counseling practices.

3.1. f. Apply the principles to practice psychotherapy.

3.1. g. Assess the health status of the community he / she is serving as well as to its major health needs and problems.

3.2. Obtain a complete & a focused medical history .

3.3. Perform physical and mental status examination for acute & chronic diseases patient (adult, geriatric or child) bearing in mind the difference in the cultural background.

3.4. Perform mental status assessment (examination & evaluation) for a patient (adult or child).

3.5. Formulate specific clinical sheets suitable to record medical problems to deal with common clinical problems- met with - in clinical practice.

3.6. Design rational management strategies for both acute and chronic conditions commonly met with in clinical practice as well as monitor their effectiveness.

3.7. Write safe prescriptions of different types of drugs including different modalities for pain relief, based on patient's weight, age and health condition .

3.8. Manage life-threatening, injured and serious conditions with

instituting appropriate initial therapy (first aid measures) .

By the end of the program the graduate will be able to perform the following procedures and technical skills under appropriate supervision during undergraduate and house officer training:

:

- 3.9. Insert intravenous line to collect blood samples.
- 3.10. Insert a cannula into peripheral veins.
- 3.11. Give intramuscular, subcutaneous, intradermal and intravenous injections.
- 3.12. suture superficial wounds.
- 3.13. Demonstrate competency in cardiopulmonary resuscitation and basic life-support.
- 3.14. Administer compulsory childhood vaccines.
- 3.15. Perform and interpret basic bedside laboratory tests.
- 3.16. Perform and interpret ECG.
- 3.17. Administer basic oxygen therapy.
- 3.18. Perform and interpret basic respiratory function tests.
- 3.19. Use a nebulizer for administration of inhalation therapy.
- 3.20. Insert a nasogastric tube.
- 3.21. Insert catheters into bladder
- 3.22. carry-out the s Steps of normal labor (in the skill lab for under-graduate).
- 3.23. Apply the principles of sterile techniques and principles of infection control

4. Professional Attitude and Behavioral kills:

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

- 4.1. Adopt an empathic and holistic approach to the patients and their problems.
- 4.2. Demonstrate Respect for patients' rights and involve them and /or their caretakers in management decisions.
- 4.3. Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs using appropriate language to establish a good patient-physician relationship.

4.4. Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague)..

4.5. Complies with the requirements of the national code of ethics issued by the Egyptian Medical Syndicate.

(لائحة آداب المهنة الصادرة من نقابة الأطباء)

4.6. Conduct counseling sessions for prevention & control of different conditions for healthy individuals, for patients as well as their families .

4.7. Reflect critically on their own performance and that of others, to recognize personal limitations regarding skills and knowledge to refer patients to appropriate health facility at the appropriate stage.

Graduate should be able to: House Officers should be able, under appropriate supervision, to:

4.8. Respect the patient's dignity, privacy and information confidentiality with delivering care after patient's consent

4.9. Show non-prejudice in their approach to others to treat all patients equally regardless of believes, culture, and behaviors

4.10. Demonstrate respect and Work effectively as a member or a leader of an interdisciplinary team and

4.11. Establish good relations with colleagues to share all types of inter-professional activities including shared learning.

4.12. Select the most appropriate and cost effective to & therapeutic procedures for each problem..

4.13. Notify/report about any physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients safety

5. Communication skills:

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

5.1. Communicate clearly, sensitively and effectively with patients and their relatives, and colleagues from a variety of health and social care professions.

5.1.a. Explain to the patient or the patients relatives the nature of illness, the diagnostic plan, the treatment options and the possible complications in such a way that is easily understood to provide appropriate basic health education.

5.1.b. Establish good relations with other health care professionals regardless their degrees or rank (top management, subordinate or colleague)..

5.2. Recognize the therapeutic value of good communications to Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.

5.3. Cope up with difficult situations as breaking news.

5.4. Show sympathy to the patients and their relatives in situations of stress and grief.

5.5. Respect patients and their relatives, superiors, colleagues and all members of the health profession.

6. Intellectual Skills:

القدرات الذهنية

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

6.1. Combine the clinical and investigational database to be proficient in clinical problem solving.

6.2. a.. Generate a list of initial diagnostic hypotheses (differential diagnosis) for each problem

6.2. b. Analyze all sources of information in addition to the patient interview to Interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.

6.3. Adopt the questioning approach to own work & that of others to solve clinical problems.

6.4. Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.

6.5. Construct appropriate management strategies for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.

6.6. Design an initial course of management for stabilization of patients with serious illnesses.

6.7. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.

6.8. Establish life long learning in order to be able to 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).

6.9. Accepting and reacting to uncertain situation through proper counseling ,consultation and referral. .

6.10. a. Formulation of research hypothesis & questions .

6.10. b. Application of medical statistics for collecting, presenting, analyzing and interpreting medical data precisely .

7. General and Transferable Skills:

مهارات عامة

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

7.1. Establish life-long self-learning required for continuous professional development.

7.2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

7.3. Retrieve, manage, and manipulate information by all means, including electronic means.

7.4. Present information clearly in written, electronic and oral forms.

7.5. Establish effective interpersonal relationship to Communicate ideas and arguments .

7.6. Work effectively as a member or a leader of an interdisciplinary team and

7.7. Apply the principles of statistical methods for collection, presentation & analysis of all types of data .

House Officers should be able to:

7.8. Establish Evidence Based Medicine in management decisions.

7.9. Set priorities, to manage time and resources effectively.

7.10. Work efficiently within the health care team and as an effective team leader.

7.11. Solve problems related to patients, work management, and among colleagues.

7.12. Respond to changes in work environment.

7.13. Apply infection control principals and safety measures during clinical practice.

7.14. Reflect critically on their own performance and that of others, to give constructive feedback..

4- Academic Standards:

a- External references for standards (Benchmarks):

العلامات المرجعية

It is not utilized.

b- **المعايير الأكاديمية** The national academic reference standards (NARS) for medicine (January 2009).

e- **Comparison of provision to the** national academic reference standards (NARS) for medicine (January 2009).

The academic standards of the Faculty program, cover all the areas of the national academic standards in medicine (NARS), (January 2009)

5 - Curriculum structure and contents:

هيكل ومكونات البرنامج

5.a- Program duration مدة البرنامج : 6 academic years followed by one year clinical training as house officers.

5. b- Program structure:

هيكل البرنامج

5. b.i- Number of hours per week:

Lectures: practical/clinical:

Total:

5. b.ii- No. of hours: Compulsory: Elective: Optional:

5. b.iii- No. of hours of basic sciences courses: No. %

5. b.iv- No. of hours of courses of social sciences and humanities: No. %

5. b.v- No. of hours of specialized courses: No. %

5. b.vi- No. of hours of other courses:

* Clinical sciences No. %

* English language No. %

5. b.vii- Practical/Field Training: Two weeks at the end of the 4th year clinical round (4 rounds each year).

5. b.viii- Programme Levels (in credit-hours system):
Not applicable.

subject	Lectures h/week (total hours)	Practical h/week (total hours)	Clinical h/week (total hours)
<u>Basic Sciences:</u>			
○ Human Anatomy & Embryology 1 st year 2 nd year	4 h/w(120) 4 h/w(120)	6 h/w(120) 6 h/w(120)	
○ Medical Physiology 1 st year 2 nd year	5 h/w(150) 5 h/w(150)	3 h/w(60) 3 h/w(60)	
○ Histology & Cell Biology 1 st year 2 nd year	2 h/w(60) 2 h/w(60)	3 h/w(60) 3 h/w(60)	
○ Medical Biochemistry 1 st year 2 nd year	3 h/w(75) 3 h/w(75)	3 h/w(60) 3 h/w(60)	
○ Pathology	5 h/w(120)	6 h/w(120)	
○ Clinical Pharmacology	4 h/w(120)	3 h/w(60)	
○ Medical Parasitology	2 h/w(60)	3 h/w(60)	
○ Microbiology & Immunology	3 h/w(90)	3 h/w(60)	
Total	42 h/w(1200)	45 h/w(900)	
<u>Social sciences and Humanities</u>			
▪ Behavioral Science & Ethics	1 h/w(30)		
▪ Human Rights	1 h/w (30)		
Total	2 h/week(60)		
<u>Language</u>			

▪ English Language	1 h/w (30)		
Total	1 h/week(30)		
<u>Clinical sciences</u>			
Forensic medicine & Clinical Toxicology	3 h/w(80)	4 h/w(64)	2 w/year (6 h)
Public Health &Community medicine Fourth year	4 h/w(128)		15h/w for 2 months(64)
Ophthalmology	2 h/w(80)		15 h/w For 8 weeks(120)
Oto-Rhino-Laryngeology (E.N.T.)	2 h/w(64)		15 h/w For 1 month(60)
Pediatrics	3 h/w(108)		15 h/w for 12weeks(180)
General medicine & its subspecialties.	6h/w(216)		15h/w for 24 weeks(360)
Obstetrics & Gynecology	3 h/w(108)		15 h/w for 12weeks(180)
General surgery& its subspecialties.	6 h/w(216)		15h/w for 24weeks(360)
Total h/w for clinical sciences	29h/week (1000)	4 h/w	129 h/w+2weeks(6hrs)=
Total hours/week	42+2+1+29 = 74 h/week	45+4 = 49 h/week	129 h/w+2weeks(6hrs)
Total hours of the whole program =2290+964+1330= 4584 hours	(1200+60+30+1000)= 2290 hours	(900+64)=964 hours	(1330) Hours

5.c. program levels: Semesters : (Not applicable), it is Level/Year.

5.d.- Program Courses: obligatory ,no elective courses.

5. d.1- Level/Year of Program: (1)

Code No.	Course title	Total No. of hours	No. of hours / week		Program ILOs Covered
			Lect.	Lab.	
Medicine 07 01	Human Anatomy & Embryology	240	120 h (4 h/week)	120 (6h/week)	2.1.a., 2.1.c.,3.1.a.,4.10.,4.11.,6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 02	Histology &Cell Biology	120	60 (2 h/week)	60 (3h/week)	2.1. a.,2.1.b.,4.10.,4.11., 6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 03	Medical Physiology	210	150 [▲] (5 h/week)	60 (3h/week)	2.1. a.,2.1.b., 2.5. a.,2.7.,3.1. b.,3.1. d.,4.10.,4.11. 6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 04	Medical Biochemistry	135	75 (3 h/week)	60 (3h/week)	2.1.b., 2.5. a.,2.7. ,3.1. b.,3.1. d. ,4.10.,4.11., 6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 72	English Language	30	30 (1 h/week)		2.1. e.

5. d.2- Level/Year of Programme: (2)

Code No.	Course title	Total No. of hours	No. of hours / week		Programme ILO Covered
			Lect.	Lab.	
Medicine 07 01	Human Anatomy & Embryology	240	120 (4 h/week)	120 (6h/week)	2.1.a.,2.1.c., 3.1.a.,4.10.,4 .11., 6.8., 7.1.,7.2.,7.3., 7.4.,7.5.,7.6.
Medicine 07 02	Histology & Cell Biology	120	60 (2 h/week)	60 (3h/week)	2.1. a.,2.1.b., 4.10.,4.11., 6.8.,7.1.,7.2., 7.3., 7.4.,7.5.,7.6.
Medicine 07 03	Medical Physiology	210	150 [▲] (5 h/week)	60 (3h/week)	2.1.a.,2.1.b., 2.5.a.,2.7.,3. 1.b.,3.1.d.,4. 10.,4.11.,6.8. ,7.1.,7.2.,7.3. , .4.,7.5.,7.6.
Medicine 07 04	Medical Biochemistry	135	75 (3 h/week)	60 (3h/week)	2.1.b., 2.5. a.,2.7.,3.1.b., 3.1. d. ,4.10.,4.11.,6 .8.,7.1.,7.2.,7 .3., 7.4.,7.5.,7.6.
Medicine 07 71	Behavioral Science & Ethics	30	30 (1 h/week)		2.1. d, 2.1.c. 2.3. ,2.6. ,

[▲]This period includes 10 hours in Biophysics

5. d.3- Level/Year of Program: (3)

Code No.	Course title	Total no. of hours	No. of hours / week		Programme ILO Covered
			Lect.	Lab.	
Medicine 07 05	Pathology	240	120 (4h/week)	120 (6h/week)	2.2,2.3, 2.5. a., 2.5. a.,3.1. c.,4.10.,4.11., 6.8., 7.1.,7.2.,7.3., 7.4.,7.5.,7.6.
Medicine	Clinical	180	120	60	2.4.a.,2.4.b.,2.4.c.,

07 06	Pharmacology		(4h/week)	(3h/week)	2.4.d.,3.1.c.,4.10.,4.11.,6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 07	Microbiology & Immunology	150	90 (3h/week)	60 (3h/week)	2.2.,2.3. ,2.5.a.,2.7.,3.1. c.,3.23. ,4.10.,4.11.,6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 08	Medical Parasitology	120	60 (2h/week)	60 (3h/week)	2.2.,2.3. ,2.5.a.,3.1.c.,4.10.,4.11.,6.8.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 77	Human rights	30	30 (1h/week)		2.6.

5. d.4- Level/Year of Program: (4)

Code No.	Course title	Total No. of hours	No. of hours / week		Field	Programme ILO Covered
			Lect.	round		
Medicine 07 09	Public Health & Community Medicine	192	128 h (24 h/week) for 6 weeks	64 h (12h/week) for 6 weeks	2 weeks / year	2.1.c.,2.1.d,2.2.,2.3.,2.5.a.,2.5.b.,2.5.c.,2.5.d.,2.5.e.,2.5.f.,2.7.,2.8.,3.1.e.,3.1.g.,3.23.,4.10.,4.11.,6.8.,6.10.a.,6.10.b.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6,7..

<p>Medicine 07 10</p>	<p>Forensic Medicine & Clinical Toxicology</p>	<p>144</p>	<p>80 h (12h/week) for 6 weeks</p>	<p>64 h (18 h/week) for 6 weeks</p>	<p>Clinical 2 /weeks year 2.1. d.,2.2.,2.3.,2.4. a, 2.4.b. , 2.4.d., 2.5. a.,2.5. f., 2.6. ,2.8.,3.1. c.,3.1. d. ,3.2. , 3.3.,3.4.,3.5.,3. 6.,3.7.,3.8.,4.1., 4.2.,4.3.,4.4.,4. 5.,4.6.,4.7.,4.8. ,4.9., 4.10.,4.11.,5.1. a.,5.1.b.,5.2.,5. 3.,5.4.,5.5., 6.1.,6.2. a.,6.2. b.,6.3. ,6.4. ,6.5. ,6.6. ,6.7.,6.8.,6.9.,7. 1.,7.2.,7.3., 7.4.,7.5.,7.6.</p>
<p>Medicine 07 11</p>	<p>Ophthalmo logy</p>	<p>200</p>	<p>80 h (18h/week) for 6 weeks</p>	<p>120 h (18 h/wk) for 6 weeks</p>	<p>2.1. a.,2.2.,2.3.,2.4. a,2.4.b., 2.4.c. , 2.4.d., 2.5. a.,2.5. e. ,2.5. f. 2.6. ,2.7. ,2.8., 3.1. a.,3.1. c.,3.1. d.,3.2.,3.3.,3.4., 3.5.,3.6.,3.7.,3. 8., 3.23., 4.1.,4.2.,4.3.,4. 4.,4.5.,4.6.,4.7. ,4.8.,4.9., 4.10.,4.11., 4.12.,5.1.a.,5.1. b.,5.2.,5.3.,5.4., 5.5., 6.1.,6.2. a.,6.2. b.,6.3. ,6.4. ,6.5. ,6.6.</p>

						,6.7.,6.8.,6.9.,7.1.,7.2.,7.3.,7.4.,7.5.,7.6.
Medicine 07 12	Oto-Rhino-Laryngeology (E.N.T.)	124	64 h (12h/week) for 6 weeks	60 h (15h/wk) for 6 weeks	6	2.1. a.,2.2.,2.3.,2.4. a,2.4.b.,2.4.c.,2.4.d., 2.5. a.,2.5. e.,2.5. f.,2.6.,2.7.,2.8., 3.1. a.,3.1. c.,3.1 d.,3.2.,3.3.,3.4 ,3.5.,3.6.,3.7.,3.8., 3.23. , ,4.1.,4.2.,4.3.,4.4.,4.5.,4.6.,4.7 4.8.,4.9., 4.10.,4.11.,4.12 .5.1.a.,5.1.b.,5.2.,5.3.,5.4.,5.5., 6.1.,6.2. a.,6.2. b.,6.3. ,6.4. ,6.5. ,6.6. ,6.7.,6.8.,6.9.,7.17.2.,7.3., 7.4.,7.5.,7.6.,,

5. d.5- Level/Year of Program: (5)

Code No.	Course title	Total No. of hour	No. of hours / week		Programme ILO Covered
			Lect .	Pr.	

		s			
Medicine 07 13	General medicine	576	216h 6h/w	360h (15h/w) for 24 weeks)	2.1.a.,2.1.d.,2.2.,2.3. ,2.4.a ,2.4.b. ,2.4.d. , 2.5. a.,2.5. e. ,2.5. f.,2.6. ,2.8., 3.1. a. , 3.1. c.,3.1. d. , 3.1. f.,3.2.,,3.3.,3.4.,3.5., 3.6.,3.7.,3.8., 3.23., 4.1.,4.2.,4.3.,4.4.,4.5 ,4.6.,,4.7.,4.8.,4.9., 4.10.,4.11.,4.12.,5.1. a.,5.1.b.,5.2.,5.3.,5.4 ,5.5., 6.1.,6.2. a.,6.2. b.,6.3. ,6.4. ,6.5. ,6.6. 6.7.,6.8.,6.9.,7.1.,7.2 ,7.3., 7.4.,7.5.,7.6.
Medicine 07 14	Pediatrics	288	108 3h/w	180 (15h/w) for 12 weeks	2.1.a.,2.1.b.,2.1.c.,2. 1. d.,2.2.,2.3.,2.4.a ,2.4.b. ,2.4.d. , 2.5. a.,2.5. e. ,2.5. f.,2.6. ,2.8., 3.1. a. , 3.1. c.,3.1. d., 3.2.,,3.3.,3.4.,3.5.,3. 6.,3.7.,3.8., 3.23., 4.1.,4.2.,4.3.,4.4.,4.5 ,4.6.,,4.7.,4.8.,4.9, 4.10.,4.11.,4.12.,5.1. a.,5.1.b.,5.2.,5.3.,5.4 ,5.5., 6.1.,6.2. a.,6.2. b.,6.3. ,6.4. ,6.5., ,6.6.6.7.,6.8.,6.9.,7.1 ,7.2.,7.3., 7.4.,7.5.,7.6..

Subspecialties of general medicine include the following departments :

- Cardiology.
- Gastroenterology.
- Rheumatology.
- Neuropsychiatry.
- Chest.
- Clinical pathology.
- Dermatology.

5. d.6- Level/Year of Program: (6)

Code No.	Course title	Total No. of hours	No. of hours / week		Programme ILO Covered
			Lect .	Pr.	
Medicine 07 15	General surgery	576	216h 6h/w	360h (15h/w) for 24 weeks)	2.1. a., 2.2., 2.3., 2.4.a, 2.4.b., 2.4.c., 2.4.d., 2.5. a., 2.5. e., 2.5. f., 2.6., 2.7., 2.8., 3.1. a., 3.1. c., 3.1.d.,3.2.,3.,3.4.,3.5.,3.6.,3.7.,3.8., 3.23.,4.1.,4.2.,4.3., 4.4.,4.5.,4.6.,,4.7. ,4.12.,5.1.a.,5.1.b., 5.2.,5.3.,5.4.,5.5.,6. 1., 6.2. a.,6.2. b.,6.3. ,6.4.,6.5.,6.6,6.7.,6. 8.,6.9.,7.1.,7.2.,7.3. , 7.4.,7.5.,7.6.
Medicine 07 16	Gynecology & Obstetrics	288	108 3 h/w	180 (15h/w) for 12 weeks	2.1. a., 2.1.c., 2.2., 2.3., 2.4.a, 2.4.b., 2.4.c., 2.4.d., 2.5. a., 2.5. e., 2.5. f., 2.6., 2.7., 2.8., 3.1. a., 3.1. c., 3.1. d., 3.2.,,3.3.,3.4.,3.5.,,3.6.,3.7.,3.8., 3.22.

					3.23.,4.1.,4.2.,4.3., 4.4.,4.5.,4.6.,4.7., 4.12.,5.1.a.,5.1.b.,5 .2.,5.3.,5.4.,5.5., 6.1., 6.2. a.,6.2. b.,6.3. ,6.4. ,6.5. ,6.6., 6.7.,6.8.,6.9., 7.1., 7.2.,7.3., 7.4.,7.5.,7.6.
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Subspecialties of general surgery include the following departments :

- Cardio-surgery.
- Neurosurgery.
- Urosurgery.
- Orthopedics.

6- Program admission requirements

Registration to the faculty of Medicine requires the student to have the General Egyptian Secondary Education Certificate or equivalent certificates or degrees- approved by the Egyptian ministry of higher education with qualifying grades according to the guidelines put annually by the Ministry of higher education.

7- Regulations for progression and program completion:

First Year/Level/Semester

- Duration: 30 weeks
- Two sets of exams: 1st in May — 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations set by the Faculty. Midyear exams don't include English nor computer
- Criteria to progress to the next year are passing exams in at least 2

courses.

- Chances for registration after failure: 2 years
- Withdrawal or transferal of students to another faculty after 2 years failure

Second Year/Level/Semester

- Duration: 30 weeks
- Two sets of exams: 1st in May — 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations set by the Faculty
- Midyear exams do not include psychology.
- Criteria to progress to the next year are passing exams in all medical courses of the 2nd year except psychology, English and ICDL.
- Chance for registration: 2 years and external registration for only one years.
- Withdrawal or transferal of students to another faculty after 3 years failure.

Third Year/Level/Semester

- Duration: 30 weeks
- Two sets of exams: 1st in May — 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations set by the Faculty.
- Criteria to progress to the next year are passing exams in all medical courses as well as psychology, English & ICDL.

- Chance for registration: 2 years & the third year is an external registration.
- Withdrawal or transferal Of students to anther faculty after 5 years failure.

Fourth Year/ Level/Semester

- Duration: 32 weeks
- Two sets of exams: 1st in June — 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations set by the faculty.
- Criteria to progress to the next year are passing exams all medical courses studied.
- Chance for registration: 2 years & four years as an external registration.
- Withdrawal or transferal of students to anther faculty after 6 years failure.
- The registration is unlimited till success if any student had succeeded in only 2 courses (half the courses).

Fifth Year/Level/Semester

- Duration: 36 weeks
- Two sets of exams: 1st in September — 2nd in December for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the faculty.
- Criteria to progress to the next year are passing exams in all medical courses

- The registration is unlimited till success.

Sixth Year/Level/Semester

- Duration: 36 weeks
- Two sets of exams: 1st in November 2nd in May for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the faculty.
- Criteria to progress to the next year are passing exams in all medical courses.
- The registration is unlimited till success.

8- Methods for assessment:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & intellectual skills.
Oral examination	To assess knowledge , intellectual skills& general& transferable skills.
Practical examination	To assess knowledge , intellectual skills, professional & general& transferable skills.

9- Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1.Senior student	Questionnaire	Attached annex
2.Alumni	Questionnaire	Available
3.Stakeholder (Employers)	Questionnaire	Available
External Evaluator(s)	Prof. Salma Dowara	The third report is available
External Examiner(s)		
5.Other	none	none

الملحق :

يوضع توصيف المقررات على هيئة ملاحق

منسق البرنامج

التوقيع :

التوقيع :

Annexe,"1"

Program -courses ILOs

matrix

Program -courses ILOs matrix

Courses Academic standards of the program	Anatomy 1	Histology 1	Biochemistry 1	Physiology 1	English	Anatomy 2	Histology 2	Biochemistry 2	Physiology 2	Behavioral Science & Ethics	Human rights	Pharmacology	Pathology	Bacteriology	Parasitology	Community medicine	ENT	Ophthalmology	Forensic Medicine	general Medicine	Pediatrics	OB/GYN	General surgery	General Medicine (house-officers)	General Surgery(house-officers)
	2. Knowledge & understanding:																								
Courses Academic standards of the program	Anatomy 1	Histology 1	Biochemistry 1	Physiology 1	English	Anatomy 2	Histology 2	Biochemistry 2	Physiology 2	Behavioral Science & Ethics	Human rights	Pharmacology	Pathology	Bacteriology	Parasitology	Community medicine	ENT	Ophthalmology	Forensic Medicine	general Medicine	Pediatrics	OB/GYN	General surgery	General Medicine (house-officers)	General Surgery(house-officers)
2.1. a.	X	X		X		X	X		X								X	X	X	X					
2.1. b.		X	X	X			X	X	X											X					
2.1. c.	X					X				X						X				X					
2.1. d.										X						X		X	X						
2.1. e.					X																				
2.2.													X	X	X	X	X	X	X	X	X				
2.3.										X			X	X	X	X	X	X	X	X	X				
2.4. a.												X					X	X	X	X	X	X			
2.4. b.												X					X	X	X	X	X	X			
2.4. c.												X					X				X	X			
2.4. d.												X					X	X	X	X	X	X			
2.5. a.			X	X				X	X				X	X	X	X	X	X	X	X					
2.5. b.																X									
2.5. c.																X									
2.5. d.																X									

٥ - مقارنة ما يقدمه البرنامج من نتائج تعليمية
مستهدفة مع المعايير المرجعية

المعرفة والفهم: Knowledge & understanding.

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology	2.1.a., 2.1.c.,	
Medicine 07 02 Histology &Cell Biology	2.1. a.,2.1.b.,	
Medicine 07 03 Medical Physiology	2.1. a..2.1.b., 2.5. a.,2.7.,	
Medicine 07 04 Medical Biochemistry	2.1.b., 2.5. a.,2.7.	
Medicine 07 72	2.1. e.	
Medicine 07 01 Human Anatomy & Embryology	2.1.a.,2.1.c.,	
Medicine 07 02 Histology &Cell Biology	2.1. a.,2.1.b.,	
Medicine 07 03 Medical Physiology	2.1. a..2.1.b., 2.5. a.,2.7.,	
Medicine	2.1.b., 2.5. a.,2.7.	

07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics	2.1. d, 2.1.c. 2.3. ,2.6. ,	
Medicine 07 05 Pathology	2.2,2.3, 2.5. a., 2.5. a.,	
Medicine 07 06 Clinical Pharmacology	2.4.a.,2.4.b.,2.4.c., 2.4.d.,	
Medicine 07 07 Microbiology &Immunology	2.2.,2.3. ,2.5. a.,2.7.,	
Medicine 07 08 Medical Parasitology	2.2.,2.3. ,2.5. a.,	
Medicine 07 77 Human rights	2.6.	
Medicine 07 09 Public Health & Community Medicine	2.1.c.,2.1.d,2.2.,2. 3., 2.5. a.,2.5. b.,2.5. c.,2.5. d.,2.5. e.,2.5. f.,2.7.,2.8.,	
Medicine 07 10 Forensic Medicine & Clinical Toxicology	2.1. d.,2.2.,2.3.,2.4.a, 2.4.b. , 2.4.d., 2.5. a.,2.5. f., 2.6. ,2.8.,	
Medicine 07 11 Ophthalmology	2.1. a.,2.2.,2.3.,2.4.a,2.4.b., 2.4.c. , 2.4.d., 2.5. a.,2.5. e. ,2.5. f. 2.6. ,2.7. ,2.8.,	
Medicine	2.1.	

07 12 Oto-Rhino- Laryngeology (E.N.T.)	a.,2.2.,2.3.,2.4.a,2.4.b.,2.4.c.,2.4.d., 2.5. a.,2.5. e.,2.5. f.,2.6.,2.7.,2.8.,	
Medicine 07 13 General medicine	2.1.a.,2.1.d.,2.2.,2.3.,2.4.a ,2.4.b. ,2.4.d. , 2.5. a.,2.5. e. ,2.5. f.,2.6. ,2.8.,	
Medicine 07 14 Pediatrics	2.1.a.,2.1.b.,2.1.c.,2.1. d.,2.2.,2.3.,2.4.a ,2.4.b. ,2.4.d. , 2.5. a.,2.5. e. ,2.5. f.,2.6. ,2.8.,	
Medicine 07 15 General surgery	2.1. a., 2.2., 2.3., 2.4.a, 2.4.b., 2.4.c., 2.4.d., 2.5. a., 2.5. e., 2.5. f., 2.6., 2.7., 2.8.,	
Medicine 07 16 Gynecology& Obstetrics	2.1. a., 2.1.c., 2.2., 2.3., 2.4.a, 2.4.b., 2.4.c., 2.4.d., 2.5. a., 2.5. e., 2.5. f., 2.6., 2.7., 2.8.,	

:Practical and Clinical Skills-2

المهارات العملية والإكلينيكية

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology	.,3.1. a.,	
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		

Medicine 07 04 Medical Biochemistry		
Medicine 07 72		
Medicine 07 01 Human Anatomy & Embryology	.,3.1. a.,	
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology &Immunology		
Medicine 07 08		

Medical Parasitology		
Medicine 07 77 Human rights		
Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine 07 11 Ophthalmology		
Medicine 07 12 Oto-Rhino-Laryngeology (E.N.T.)		
Medicine 07 13 General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16 Gynecology & Obstetrics		

القدرات الذهنية :

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 72		
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03		

Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology &Immunology		
Medicine 07 08 Medical Parasitology		
Medicine 07 77 Human rights		
Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine		

07 11 Ophthalmology		
Medicine 07 12 Oto-Rhino- Laryngeology (E.N.T.)		
Medicine 07 13 General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16 Gynecology & Obstetrics		

ج.أ. مهارات مهنية وعملية :

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology & Cell Biology		
Medicine		

07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 72		
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology		

&Immunology		
Medicine 07 08 Medical Parasitology		
Medicine 07 77 Human rights		
Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine 07 11 Ophthalmology		
Medicine 07 12 Oto-Rhino- Laryngeology (E.N.T.)		
Medicine 07 13 General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16		

ج ب . مهارات عامة :

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 72		
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical		

Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology &Immunology		
Medicine 07 08 Medical Parasitology		
Medicine 07 77 Human rights		
Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine 07 11		

Ophthalmology		
Medicine 07 12 Oto-Rhino- Laryngeology (E.N.T.)		
Medicine 07 13 General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16 Gynecology& Obstetrics		

4. Professional Attitude and Behavioral kills:

courses	Academic standards of	NARS
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	the program	
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 72		
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science &		

Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology &Immunology		
Medicine 07 08 Medical Parasitology		
Medicine 07 77 Human rights		
Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine 07 11 Ophthalmology		
Medicine 07 12 Oto-Rhino- Laryngeology (E.N.T.)		
Medicine 07 13		

General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16 Gynecology & Obstetrics		

5. Communication skills:

courses	Academic standards of the program	NARS
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology & Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine		

07 72		
Medicine 07 01 Human Anatomy & Embryology		
Medicine 07 02 Histology &Cell Biology		
Medicine 07 03 Medical Physiology		
Medicine 07 04 Medical Biochemistry		
Medicine 07 71 Behavioral Science & Ethics		
Medicine 07 05 Pathology		
Medicine 07 06 Clinical Pharmacology		
Medicine 07 07 Microbiology &Immunology		
Medicine 07 08 Medical Parasitology		
Medicine 07 77 Human rights		

Medicine 07 09 Public Health & Community Medicine		
Medicine 07 10 Forensic Medicine & Clinical Toxicology		
Medicine 07 11 Ophthalmology		
Medicine 07 12 Oto-Rhino- Laryngeology (E.N.T.)		
Medicine 07 13 General medicine		
Medicine 07 14 Pediatrics		
Medicine 07 15 General surgery		
Medicine 07 16 Gynecology& Obstetrics		

Annexe, "2"

House-officer

training program

House-officer training program

one year clinical training in hospitals either - university or ministry of health- under the supervision of Benha faculty of medicine, before being licensed.

The graduate must attain "two" monthly training in the following departments: medicine, gynecology& obstetric, surgery ,pediatrics,as well as anesthesia & emergency

House-officers training program is attached .

department	Total No. of days	Program ILOs Covered
General medicine	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 23.,4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13.,5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9.,7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14.
General surgery	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 23., 4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13., 5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9., 7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14..
Pediatrics	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 23., 4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13., 5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9., 7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14.

Emergency & anesthesia	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 23., 4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13., 5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9., 7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14.
Gynecology & Obstetrics	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3.1.d, 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 22.,3. 23., 4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13., 5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9., 7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14.
Special department according to the house-officers choice.	60 days	3.1.d., 3.1.f., 3.2., 3.2., 3.3., 3.4., 3.5.,3.6.,3.7.,3.8.,3. 9., 3.10., 3.11., 3.12., 3.13., 3.14., 3.15., 3.16., 3.17., 3.18., 3.19., 3. 20., 3. 21., 3. 23., 4.1.,4.2.,4.3., 4.5., 4.6., 4.7., 4.8., 4.9., 4.10., 4.11., 4.12., 4.13., 5.1.a,5.1.b,5.2.,5.3.,5.4.,5.5., 6.1.,6.2.a.,6.2.b.,6.3.,6.4.,6.5.,6.6.,6.7., 6.9., 7.2.,7.3.,7.4.,7.5.,7.6.,7.8.,7.9.,7.10., 7.11.,7.12.,7.13.,7.14.