



Tanta University
Faculty of Medicine
Quality Assurance Unit



Integrated based curriculum

Program specifications

Code:

2018 / 2019

Integrated based curriculum

Program specifications

University: Tanta

Faculty: Medicine

1- Administrative Information

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

2-Program type: Single

3-Departments:

No.	Department Name		Department Code
	English	العربية	
1	Anatomy and Embryology	التشريح الأدمى وعلم الأجنة	ANA
2	Histology and cell biology	علم الأنسجة وبيولوجيا الخلايا	HIST
3	Medical Biochemistry	الكيمياء الحيوية الطبية	BIO
4	Physiology	الفسيولوجي الطبية (علم وظائف الأعضاء)	PHYS
5	Medical Pharmacology	الفارماكولوجيا الطبية	PHAR
6	Pathology	الباثولوجي (علم الأمراض)	PATH
7	Microbiology and immunology	الميكروبيولوجيا الطبية والمناعة	MICR
8	Medical Parasitology	الطفيليات الطبية	PARA
9	Public Health and Community Medicine	الصحة العامة وطب المجتمع	COMM
10	Forensic Medicine and Clinical Toxicology	الطب الشرعي والسموم الأكلينيكية	FMCT
11	Ophthalmology	طب وجراحة العيون	OPHT
12	Ear, Nose and Throat	الأذن والأنف والحنجرة	ENT
13	Internal Medicine	لباطنة العامة	MED
14	Neurology	الأمراض العصبية	NEURO
15	Psychiatry	الأمراض النفسية	PSYC
16	Dermatology	الأمراض الجلدية والتناسلية	DERMVEN
17	Tropical Medicine and Infectious diseases	طب المناطق الحارة والأمراض المعدية	TROP
18	Chest Diseases	الأمراض الصدرية	CHEST
19	Clinical pathology	الباثولوجيا الإكلينيكية والكيميائية	CCP
20	Physical medicine, rheumatology, & rehabilitation	الطب الطبيعي والروماتيزم والتأهيل	PRR
21	Cardiology	أمراض القلب والأوعية الدموية	CARD
22	Radio Diagnostic and Medical Imaging	الأشعة التشخيصية والتصوير الطبي	RAD
23	Pediatrics	الاطفال	PED
24	Obstetrics & Gynecology	التوليد وأمراض النساء	OBGYN
25	Surgery	الجراحة العامة	SURG
26	Orthopedics Surgery	جراحة العظام	ORTHO

No.	Department Name		Department Code
	English	العربية	
27	Plastic and Maxillofacial Surgery	جراحة التجميل والاصلاح	PLS
28	Neurosurgery	جراحة المخ والأعصاب	NEUROS
29	Urology	جراحة المسالك البولية والتناسلية	UROL
30	Emergency Medicine & Traumatology	طب الطوارئ والإصابات	EMERT
31	Cardiothoracic Surgery	جراحة القلب والصدر	CARS
32	Vascular Surgery	جراحة الأوعية الدموية	VAS
33	Anesthesia & Intensive care and pain management	التخدير والعناية المركزة الجراحية وعلاج الألم	ANES
34	Clinical oncology and nuclear medicine	علاج الأورام والطب النووي	ONM

Program Coordinator: Pro. Dr. waleed Samy & Pro. Dr. Manal Ibrahim El Bermaway

Internal evaluator: Pro. Dr. Amal Hashish & Pro. Dr. Gamalat el selat & Pro. Dr. Nehal shehab

External evaluator: Pro. Dr. Sanaa el shikh (Ein shams Faculty of Medicine)

2- Professional Information

1- Program aims/objectives

Aim:

Preparing a distinguished graduate locally, regionally and internationally, qualified to provide quality health care and acquire professional skills with an increased capacity for self-learning, leadership and involvement in scientific research, application and professional development within the framework of professional ethics.

Objectives:

The objectives of the program is to:

1. Provide students with basic medical information.
2. Prepare students to apply medical information and use it to solve clinical problems of patients.
3. Enhance students communication, intellectual, clinical and leadership skills.
4. Integrate different branches of medicine to prepare an efficient doctor.
5. Give students the freedom to choose different courses.
6. Urge students to continue medical education and apply scientific research methodology.
7. Provide the basic rules of ethics.
8. Link medical education to community needs

2- Intended Learning Outcomes (ILOs)

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

Competency Area I: The graduate as a health care provider

- 1.1. Take and record a structured, patient centered history.
- 1.2. Adopt an empathic and holistic approach to the patients and their problems.
- 1.3. Assess the mental state of the patient.
- 1.4. Perform appropriately timed full physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.
- 1.5. Prioritize issues to be addressed in a patient encounter.
- 1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.
- 1.7. Recognize and respond to the complexity, uncertainty, and ambiguity inherent in medical practice.
- 1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.
- 1.9. 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).
- 1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- 1.11. Perform diagnostic and intervention procedures in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.
- 1.12. Adopt strategies and apply measures that promote patient safety.
- 1.13. Establish patient-centered management plans in partnership with the patient, his/her family and other health professionals as appropriate, using Evidence Based Medicine in management decisions.
- 1.14. Respect patients' rights and involve them and /or their families/carers in management decisions.
- 1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.
- 1.16. Apply the appropriate pharmacological and nonpharmacological approaches to alleviate pain and provide palliative care for seriously ill people, aiming to relieve their suffering and improve their quality of life.
- 1.17. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification.

Competency Area II: The graduate as a health promoter

- 2.1 Identify the basic determinants of health and principles of health improvement.

- 2.2 Recognize the economic, psychological, social, and cultural factors that interfere with wellbeing.
- 2.3 Discuss the role of nutrition and physical activity in health.
- 2.4 Identify the major health risks in his/her community, including demographic, occupational and environmental risks; endemic diseases, and prevalent chronic diseases.
- 2.5 Describe the principles of disease prevention, and empower communities, specific groups or individuals by raising their awareness and building their capacity.
- 2.6 Recognize the epidemiology of common diseases within his/her community, and apply the systematic approaches useful in reducing the incidence and prevalence of those diseases.
- 2.7 Provide care for specific groups including pregnant women, newborns and infants, adolescents and the elderly.
- 2.8 Identify vulnerable individuals that may be suffering from abuse or neglect and take the proper actions to safeguard their welfare.
- 2.9 Adopt suitable measures for infection control.

Competency Area III: The graduate as a professional

- 3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.
- 3.2. Adhere to the professional standards and laws governing the practice, and abide by the national code of ethics issued by the Egyptian Medical Syndicate.
- 3.3. Respect the different cultural beliefs and values in the community they serve.
- 3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.
- 3.5. Ensure confidentiality and privacy of patients' information.
- 3.6. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.
- 3.7. Recognize and manage conflicts of interest.
- 3.8. Refer patients to appropriate health facility at the appropriate stage.
- 3.9. Identify and report any unprofessional and unethical behaviors or physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.

Competency Area IV: The graduate as a scholar and scientist

- 4.1 Describe the normal structure of the body and its major organ systems and explain their functions.
- 4.2 Explain the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.

- 4.3 Recognize and describe main developmental changes in humans and the effect of growth, development and aging on the individual and his family.
- 4.4 Explain normal human behavior and apply theoretical frameworks of psychology to interpret the varied responses of individuals, groups and societies to disease.
- 4.5 Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of illness/disease and explain the ways in which they operate on the body (pathogenesis).
- 4.6 Describe altered structure and function of the body and its major organ systems that are seen in various diseases and conditions.
- 4.7 Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.
- 4.8 Demonstrate basic sciences specific practical skills and procedures relevant to future practice, recognizing their scientific basis, and interpret common diagnostic modalities, including: imaging, electrocardiograms, laboratory assays, pathologic studies, and functional assessment tests.

Competency Area V: The graduate as a member of the health team and the health care system

- 5.1 Recognize the important role played by other health care professions in patients' management.
- 5.2 Respect colleagues and other health care professionals and work cooperatively with them, negotiating overlapping and shared responsibilities and engaging in shared decision-making for effective patient management.
- 5.3 Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work.
- 5.4 Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.
- 5.5 Communicate effectively using a written health record, electronic medical record, or other digital technology.
- 5.6 Evaluate his/her work and that of others using constructive feedback.
- 5.7 Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.
- 5.8 Apply fundamental knowledge of health economics to ensure the efficiency and effectiveness of the health care system.
- 5.9 Use health informatics to improve the quality of patient care.
- 5.10 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.
- 5.11 Improve the health service provision by applying a process of continuous quality

improvement.

5.12 Demonstrate accountability to patients, society, and the profession.

Competency Area VI: The graduate as a lifelong learner and researcher

- 6.1 Regularly reflect on and assess his/her performance using various performance indicators and information sources.**
- 6.2 Develop, implement, monitor, and revise a personal learning plan to enhance professional practice**
- 6.3 Identify opportunities and use various resources for learning.**
- 6.4 Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.**
- 6.5 Recognize practice uncertainty and knowledge gaps in clinical and other professional encounters and generate focused questions that address them.**
- 6.6 Effectively manage learning time and resources and set priorities.**
- 6.7 Demonstrate an understanding of the scientific principles of research including its ethical aspects and scholarly inquiry and Contribute to the work of a research study.**
- 6.8 Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability.**
- 6.9 Analyze and use numerical data including the use of basic statistical methods.**
- 6.10 Summarize and present to professional and lay audiences the findings of relevant research and scholarly inquiry**

3- Academic standards:

- Medical academic standards for Bachelor of Medicine and Surgery M.B. B.Ch adopted by the faculty council in 24/3/ 2018 and offered by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE) for post graduate 2009 was adopted.

4. Benchmarking

Academic standards adopted in this course is designed according to NARS 2017

5- Curriculum structure and contents

Credit points: 300

5-1- Program duration:

5 academic years followed by two years clinical training as house officers.

5-2- Program structure:

- a. Foundation Modules (two semesters).
- b. Integrated systems (three semesters).
- c. Clinical Modules (five semesters).

d. House officer (Internship) 2 years

Number of hours per week: **Contact hours: 30-35 hour / Week**

Homework/ SDL: 15 hour / Week

5-2 i- No. of Credit points: Compulsory: **282** Elective: : **18**

5-2 ii- No. of points of basic sciences courses: No. **52** = **17.4** %

5-2 iii- No. of hours of courses of English language: No. **3** = **1** %

5-2 iv- No. of hours of Clinical sciences: No. **126** = **42** %

5-2 v- No. of hours of Integrated courses: No. **70** = **23.3** %

5-2 vi- No. of hours of specialized courses: No. **31** = **10.3** %

5-2 vii- Program Levels (in credit-points system): 5 levels

6- Courses contributing to the program:

Year/Semester of program

1- First Year:

A. Semester 1:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
ANA 1101	Principles of Anatomy	4	7	140
HIST 1102	Principles of Histology & Cell Biology	4	5	100
PHYS 1103	Principles of Physiology	4	5	100
BIO 1104	Principles of Biochemistry	4	5	140
PPC 1 1105	Physician Patient Communication 1	16	2	40
ECS 1106	Early Clinical Skills		3	40
ENG 1107	Basic English		3	40
Total		16	30	600

B. Semester 2:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
PATH 1201	Principles of Pathology	4	6	120
PARA 1202	Principles of Parasitology	4	5	100
PHAR 1203	Principles of Pharmacology	4	5	100
MIC 1204	Principles of Microbiology	4	5	100
IHD 1205	Infection& Host defense		3	60
PRO1 1206	Professionalism 1	Cont.	3	60
ELC 1	Elective 1 (NM)		3	60
Total		16	30	600

2- Second Year:

A. Semester 3:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
FORN 2101	Forensic Medicine	3	5	100
CT 2102	Clinical Toxicology	2	4	80
CVS1 2103	Cardiovascular system 1	3	5	100
NEU1 2104	Neuroscience 1	4	7	140
BEH 2105	Behavioral sciences	2	3	60
RM1 2105	Research Methodology 1	2	3	60
ELc 2	Elective 2		3	60
Total		16	30	600

B. Semester 4:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
End1&REP1 2201	Endocrinology1 & Reproductive	5	10	200
NM 2202	Nutrition & Metabolism	3	5	100
SS 2203	Special sense	3	5	100
URIN 2204	Urinary system	3	5	100
MG 2205	Medical Genetics	2	5	100
Total		16	30	600

3- Third Year:

A. Semester 5:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
LOC 3101	Locomotor system1	4	9	180
RESP 3102	Respiratory system1	3	5	100
HEM1 3103	Hematology 1	3	5	100
GIT1 3104	Gastrointestinal tracts 1	4	6	120
PPC2 3105	Pysician patient Communication 2	Cont.	2	40
ELC 3	Elective 3		3	60
Total		16	30	600

B. Semester 6:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
SS2 3201	Special Senses 2 (ENT)	3	4	80
SS3 3202	Special Senses 3 (Ophthalmology)	3	5	100
CM 3203	Community medicine	3	6	120
ME 3304	Medical Ethics	2	2	40
MI 3305	Medical Informatics	3	3	60
RM 3306	Research Methodology2	2	3	60
PS 3307	Patient Safety	2	3	60
ELC 4	Elective 4		3	60
Total		16	29	580

4- Fourth Year:

A. Semester 7:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
MED1 4101	Medicine 1	9	16	320
MED2 4102	Medicine 2	7	16	320
Total		16	32	640

4- B. Semester 8:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
Ped 4201	Pediatrics	8	12	240
CEB 4202	Clinical Epidemiology& Biostatistics	2	4	80
FM 4203	Family Medicine	4	6	120
EBM 4204	Evidence Based Medicine	2	3	60
ELC 5	Elective 5	Cont.	3	60
Total		16	28	560

5- Fifth Year:

A. Semester 9:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
SUR1 5101	Surgery 1	8	16	320
EMER 5102	Emergency Medicine	4	8	160
PRO2 5103	Professionalism 2	2	3	60
RP 5104	Research Project	2	4	80
Total		16	31	620

B. Semester 10:

Course code	Course name			Total marks
	Name	Weeks	Credit points	
SUR2 5201	Surgery 2	10	15	300
OBGYN 5202	Obstetrics and Gynecology	6	12	240
ELC 6	Elective 6		3	60
Total		16	30	600

House Officers

House Officer	
Duration	Program ILO's covered
2 year	Will be obtained through the Ministry of Health

Program - course ILO Matrix

Competency Area I: The graduate as a health care provider

Code	Module	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ANA 1101	Principles of Anatomy								*									
HIST 1102	Principles of Histology & Cell Biology								*									
PHYS 1103	Principles of Physiology								*									
BIO 1104	Principles of Biochemistry																	
PPC 1105	Physician Patient Communication 1	*	*										*		*			*
ECS 1106	Early Clinical Skills	*	*	*	*								*					
ENG 1107	Basic English																	
PATH 1201	Principles of Pathology								*									
PARA 1202	Principles of Parasitology								*									
PHAR 1203	Principles of Pharmacology								*									
MIC 1204	Principles of Microbiology								*									

Code	Module	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IHD 1205	Infection& Host defense								*									
PRO1 1206	Professionalism 1														*			*
ELC 1	Elective 1 (NM)																	
FORN 2101	Forensic Medicine																	
CT 2102	Clinical Toxicology																	
CVS1 2103	Cardiovascular system 1	*									*							
NEU1 2104	Neuroscience 1							*										
BEH 2105	Behavioral sciences																	
RM1 2105	Research Methodology 1								*									
ELc 2	Elective 2																	
End1&R EP1 2201	Endocrinology1 & Reproductive								*									
NM 2202	Nutrition & Metabolism								*									
SS 2203	Special sense								*									

Code	Module	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
URIN 2204	Urinary system								*									
MG 2205	Medical Genetics								*									
LOC 3101	Locomotor system1								*									
RESP 3102	Respiratory system1								*									
HEM1 3103	Hematology 1								*									
GIT1 3104	Gastrointestinal tracts 1								*									
PPC2 3105	Physician patient Communication 2		*												*			*
ELC 3	Elective 3																	
SS2 3201	Special Senses 2 (ENT)								*									
SS3 3202	Special Senses 3 (Ophthalmology)								*									
CM 3203	Community medicine																	
ME 3304	Medical Ethics		*												*			*

Code	Module	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MI 3305	Medical Informatics																	
RM 3306	Research Methodology 2									*	*							
PS 3307	Patient Safety											*	*		*			
ELC 4	Elective 4																	
MED1 4101	Medicine 1					*		*	*			*		*			*	
MED2 4102	Medicine 2					*		*	*			*		*			*	
Ped 4201	Pediatrics					*		*	*			*		*			*	
CEB 4202	Clinical Epidemiology & Biostatistics																	
FM 4203	Family Medicine																	
EBM 4204	Evidence Based Medicine								*	*				*				
ELC 5	Elective 5																	
SUR1 5101	Surgery 1					*		*	*			*		*		*	*	
EMER 5102	Emergency Medicine															*		

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Code	Module	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PRO2 5103	Professionalism 2														*			*
RP 5104	Research Project								*	*				*				
SUR2 5201	Surgery 2					*		*	*			*		*		*	*	
OBGYN 5202	Obstetrics and Gynecology					*		*	*			*		*		*	*	
ELC 6	Elective 6																	

Competency Area II: The graduate as a health promoter

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
ANA 1101	Principles of Anatomy									
HIST 1102	Principles of Histology & Cell Biology									
PHYS 1103	Principles of Physiology									
BIO 1104	Principles of Biochemistry									
PPC 1 1105	Physician Patient Communication 1									
ECS 1106	Early Clinical Skills									
ENG 1107	Basic English									
PATH 1201	Principles of Pathology									
PARA 1202	Principles of Parasitology									
PHAR 1203	Principles of Pharmacology									
MIC 1204	Principles of Microbiology									
IHD 1205	Infection & Host defense									*
PRO1 1206	Professionalism 1									
ELC 1	Elective 1 (NM)									

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
FORN 2101	Forensic Medicine						*			
CT 2102	Clinical Toxicology									
CVS1 2103	Cardiovascular system 1									
NEU1 2104	Neuroscience 1									
BEH 2105	Behavioral sciences		*			*			*	
RM1 2105	Research Methodology 1									
ELc 2	Elective 2									
End1&REP1 2201	Endocrinology1 & Reproductive	*		*		*		*	*	
NM 2202	Nutrition & Metabolism									
SS 2203	Special sense									
URIN 2204	Urinary system									
MG 2205	Medical Genetics									
LOC 3101	Locomotor system1									
RESP 3102	Respiratory system1									
HEM1 3103	Hematology 1									
GIT1 3104	Gastrointestinal tracts 1									
PPC2 3105	Pysician patient Communication 2									
ELC 3	Elective 3									

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
SS2 3201	Special Senses 2 (ENT)									
SS3 3202	Special Senses 3 (Ophthalmology)									
CM 3203	Community medicine	*	*	*	*	*	*	*	*	
ME 3304	Medical Ethics									
MI 3305	Medical Informatics									
RM 3306	Research Methodology2									
PS 3307	Patient Safety	*	*							*
ELC 4	Elective 4									
MED1 4101	Medicine 1							*		
MED2 4102	Medicine 2							*		
Ped 4201	Pediatrics							*		
CEB 4202	Clinical Epidemiology& Biostatistics						*			
FM 4203	Family Medicine	*	*		*	*	*	*	*	
EBM 4204	Evidence Based Medicine									
ELC 5	Elective 5									
SUR1 5101	Surgery 1									
EMER 5102	Emergency Medicine									
PRO2 5103	Professionalism 2									

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
RP 5104	Research Project									
SUR2 5201	Surgery 2									
OBGYN 5202	Obstetrics and Gynecology							*		
ELC 6	Elective 6									

Competency Area III: The graduate as a professional

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
ANA 1101	Principles of Anatomy									
HIST 1102	Principles of Histology & Cell Biology									
PHYS 1103	Principles of Physiology									
BIO 1104	Principles of Biochemistry									
PPC 1 1105	Physician Patient Communication 1	*		*	*	*				
ECS 1106	Early Clinical Skills	*								
ENG 1107	Basic English									
PATH 1201	Principles of Pathology									
PARA 1202	Principles of Parasitology									
PHAR 1203	Principles of Pharmacology									
MIC 1204	Principles of Microbiology									
IHD 1205	Infection& Host defense									
PRO1 1206	Professionalism 1	*	*	*	*	*		*		*
ELC 1	Elective 1 (NM)						*			

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
FORN 2101	Forensic Medicine									
CT 2102	Clinical Toxicology									
CVS1 2103	Cardiovascular system 1									
NEU1 2104	Neuroscience 1									
BEH 2105	Behavioral sciences	*			*					
RM1 2105	Research Methodology 1									
ELc 2	Elective 2									
End1&REP1 2201	Endocrinology1 & Reproductive									
NM 2202	Nutrition & Metabolism									
SS 2203	Special sense									
URIN 2204	Urinary system									
MG 2205	Medical Genetics									
LOC 3101	Locomotor system1									
RESP 3102	Respiratory system1									
HEM1 3103	Hematology 1									
GIT1 3104	Gastrointestinal tracts 1									
PPC2 3105	Physician patient Communication 2	*		*	*	*				
ELC 3	Elective 3									

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
SS2 3201	Special Senses 2 (ENT)				*				*	
SS3 3202	Special Senses 3 (Ophthalmology)				*				*	
CM 3203	Community medicine			*						
ME 3304	Medical Ethics	*	*	*	*	*				*
MI 3305	Medical Informatics									
RM 3306	Research Methodology2									
PS 3307	Patient Safety	*	*						*	
ELC 4	Elective 4									
MED1 4101	Medicine 1					*			*	
MED2 4102	Medicine 2					*			*	
Ped 4201	Pediatrics					*			*	
CEB 4202	Clinical Epidemiology& Biostatistics									
FM 4203	Family Medicine	*								
EBM 4204	Evidence Based Medicine									
ELC 5	Elective 5									
SUR1 5101	Surgery 1					*			*	
EMER 5102	Emergency Medicine								*	
PRO2 5103	Professionalism 2	*	*	*	*	*		*		*

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Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
RP 5104	Research Project									
SUR2 5201	Surgery 2					*			*	
OBGYN 5202	Obstetrics and Gynecology					*			*	
ELC 6	Elective 6									

Competency Area IV: The graduate as a scholar and scientist

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
ANA 1101	Principles of Anatomy	*		*			*		*
HIST 1102	Principles of Histology & Cell Biology		*						
PHYS 1103	Principles of Physiology	*	*				*		*
BIO 1104	Principles of Biochemistry		*						*
PPC 1 1105	Physician Patient Communication 1								
ECS 1106	Early Clinical Skills								
ENG 1107	Basic English								
PATH 1201	Principles of Pathology					*			*
PARA 1202	Principles of Parasitology					*			
PHAR 1203	Principles of Pharmacology							*	
MIC 1204	Principles of Microbiology					*			*
IHD 1205	Infection& Host defense					*			
PRO1 1206	Professionalism 1								
ELC 1	Elective 1 (NM)								
FORN 2101	Forensic Medicine								
CT 2102	Clinical Toxicology					*		*	

Program specifications Integrated based curriculum 2018-2019

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
CVS1 2103	Cardiovascular system 1					*	*	*	*
NEU1 2104	Neuroscience 1					*	*		*
BEH 2105	Behavioral sciences				*				
RM1 2105	Research Methodology 1								
ELc 2	Elective 2								
End1&REP1 2201	Endocrinology1 & Reproductive					*	*	*	*
NM 2202	Nutrition & Metabolism								
SS 2203	Special sense					*	*	*	*
URIN 2204	Urinary system					*	*	*	*
MG 2205	Medical Genetics		*						
LOC 3101	Locomotor system1					*	*	*	
RESP 3102	Respiratory system1					*	*	*	*
HEM1 3103	Hematology 1					*	*		
GIT1 3104	Gastrointestinal tracts 1					*	*	*	*
PPC2 3105	Physician patient Communication 2								
ELC 3	Elective 3								
SS2 3201	Special Senses 2 (ENT)					*			
SS3 3202	Special Senses 3 (Ophthalmology)					*			

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
CM 3203	Community medicine			*	*				
ME 3304	Medical Ethics								
MI 3305	Medical Informatics								
RM 3306	Research Methodology2								
PS 3307	Patient Safety								
ELC 4	Elective 4								
MED1 4101	Medicine 1								*
MED2 4102	Medicine 2				*				*
Ped 4201	Pediatrics								
CEB 4202	Clinical Epidemiology& Biostatistics								
FM 4203	Family Medicine			*	*				
EBM 4204	Evidence Based Medicine								
ELC 5	Elective 5								
SUR1 5101	Surgery 1								
EMER 5102	Emergency Medicine								
PRO2 5103	Professionalism 2								
RP 5104	Research Project								
SUR2 5201	Surgery 2								
OBGYN 5202	Obstetrics and Gynecology								

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
ELC 6	Elective 6								

Competency Area V: The graduate as a member of the health team and the health care system

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
ANA 1101	Principles of Anatomy												
HIST 1102	Principles of Histology & Cell Biology												
PHYS 1103	Principles of Physiology												
BIO 1104	Principles of Biochemistry												
PPC 1 1105	Physician Patient Communication 1	*	*										
ECS 1106	Early Clinical Skills												
ENG 1107	Basic English					*							
PATH 1201	Principles of Pathology												
PARA 1202	Principles of Parasitology												
PHAR 1203	Principles of Pharmacology												
MIC 1204	Principles of Microbiology												
IHD 1205	Infection & Host defense												
PRO1 1206	Professionalism	*	*	*	*		*						

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
	1												
ELC 1	Elective 1 (NM)												
FORN 2101	Forensic Medicine										*		
CT 2102	Clinical Toxicology									*	*		
CVS1 2103	Cardiovascular system 1												
NEU1 2104	Neuroscience 1												
BEH 2105	Behavioral sciences												
RM1 2105	Research Methodology 1			*	*	*		*					
ELc 2	Elective 2												
End1&REP1 2201	Endocrinology1 & Reproductive												
NM 2202	Nutrition & Metabolism												
SS 2203	Special sense												
URIN 2204	Urinary system												
MG 2205	Medical Genetics												
LOC 3101	Locomotor system1												
RESP 3102	Respiratory system1												
HEM1 3103	Hematology 1												

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
GIT1 3104	Gastrointestinal tracts 1												
PPC2 3105	Physician patient Communication 2	*	*										
ELC 3	Elective 3												
SS2 3201	Special Senses 2 (ENT)									*	*		
SS3 3202	Special Senses 3 (Ophthalmology)									*	*		
CM 3203	Community medicine								*				*
ME 3304	Medical Ethics	*	*										
MI 3305	Medical Informatics					*				*			*
RM 3306	Research Methodology2					*		*					
PS 3307	Patient Safety	*	*										
ELC 4	Elective 4												
MED1 4101	Medicine 1			*					*	*	*		
MED2 4102	Medicine 2			*					*	*	*		
Ped 4201	Pediatrics			*					*	*	*		
CEB 4202	Clinical Epidemiology& Biostatistics					*			*			*	*
FM 4203	Family Medicine								*				*

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
EBM 4204	Evidence Based Medicine				*				*				
ELC 5	Elective 5												
SUR1 5101	Surgery 1			*					*		*		
EMER 5102	Emergency Medicine												
PRO2 5103	Professionalism 2	*	*		*		*	*					
RP 5104	Research Project	*	*	*	*	*		*				*	
SUR2 5201	Surgery 2			*					*		*		
OBGYN 5202	Obstetrics and Gynecology			*					*		*		
ELC 6	Elective 6												

Competency Area VI: The graduate as a lifelong learner and researcher

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
ANA 1101	Principles of Anatomy										
HIST 1102	Principles of Histology & Cell Biology										
PHYS 1103	Principles of Physiology										
BIO 1104	Principles of Biochemistry										
PPC 1 1105	Physician Patient Communication 1										
ECS 1106	Early Clinical Skills										
ENG 1107	Basic English										
PATH 1201	Principles of Pathology										
PARA 1202	Principles of Parasitology										
PHAR 1203	Principles of Pharmacology										
MIC 1204	Principles of Microbiology										
IHD 1205	Infection& Host defense										
PRO1 1206	Professionalism 1				*						
ELC 1	Elective 1 (NM)										

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
FORN 2101	Forensic Medicine										
CT 2102	Clinical Toxicology										
CVS1 2103	Cardiovascular system 1										
NEU1 2104	Neuroscience 1										
BEH 2105	Behavioral sciences										
RM1 2105	Research Methodology 1	*	*			*	*		*	*	
ELc 2	Elective 2										
End1&REP1 2201	Endocrinology1 & Reproductive										
NM 2202	Nutrition & Metabolism										
SS 2203	Special sense										
URIN 2204	Urinary system										
MG 2205	Medical Genetics										
LOC 3101	Locomotor system1										
RESP 3102	Respiratory system1										
HEM1 3103	Hematology 1										
GIT1 3104	Gastrointestinal tracts 1										
PPC2 3105	Physician patient Communication 2										
ELC 3	Elective 3										

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
SS2 3201	Special Senses 2 (ENT)		*	*		*					
SS3 3202	Special Senses 3 (Ophthalmology)		*	*		*					
CM 3203	Community medicine										
ME 3304	Medical Ethics										
MI 3305	Medical Informatics										
RM 3306	Research Methodology2	*	*			*	*		*		
PS 3307	Patient Safety										
ELC 4	Elective 4										
MED1 4101	Medicine 1	*		*		*					
MED2 4102	Medicine 2	*		*		*					
Ped 4201	Pediatrics	*		*		*					
CEB 4202	Clinical Epidemiology& Biostatistics		*			*				*	
FM 4203	Family Medicine										
EBM 4204	Evidence Based Medicine					*					
ELC 5	Elective 5										
SUR1 5101	Surgery 1	*		*		*					
EMER 5102	Emergency Medicine	*									

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
PRO2 5103	Professionalism 2				*	*					
RP 5104	Research Project	*	*	*	*	*	*		*	*	*
SUR2 5201	Surgery 2	*		*		*					
OBGYN 5202	Obstetrics and Gynecology	*		*		*					
ELC 6	Elective 6										

7- 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.

International students are admitted according to the rules and conditions set by the Department of Expatriates at the Ministry of Higher Education, through the General Administration of Education Affairs at the university.

8- Regulations for progression and program completion

- According to Bachelor of Medicine and Surgery - Credit Points System Regulation, Faculty of Medicine, Tanta University, 2018

9- Teaching Methods:

N	Method	Scholar and scientific	Health care provider	Lifelong learner and researcher	Member of the health team	Professional	Health promoter
1	large group sessions	X		X			X
2	Practical /Clinical activities	X	X		X	X	
3	Simulators &/or Mock patient		X			X	X
4	Case conferences (Seminars)	X	X	X	X		
5	Journal clubs /conference			X	X	X	
6	Role models &/or Case-log/diary					X	
7	Reflection					X	X
8	Web based		X		X		

10- Methods for assessment:

N	Method	Scholar and scientis	Health care provider	Lifelong learner and researcher	Member of the health team	Professional	Health promoter
1	Formative WPBA with checklist		X	X	X	X	X
2	Written Examination	X	X	X			X
3	Presentation				X		
4	Written reports	X	X	X			
5	OSCE/OSPE	X	X		X	X	X
6	Portfolio/ Log book		X			X	
7	Simulated Patients		X				

11- 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) External Examiner(s)	Report	
5.Other	-----	-----

References

1. National Academic References Standards (NARS) for medicine (2nd edition, 2017)

We verify that the above Course and the analysis of students and external evaluator opinions are accurate.

Program coordinator

Name.....signature.....Date.....

Head of quality assurance unit:

Name.....signature.....Date.....

Fundamental physical examination skills	
1.	Measuring body temperature
2.	Measuring pulse rate, respiratory rate and blood pressure
3.	Anthropometric Measurements and assessment of nutritional status
4.	Chest examination
5.	Heart examination
6.	Abdominal examination
7.	Locomotor system examination
8.	Nervous system examination
9.	Examination of the jugular veins
10.	Ear examination
11.	Throat examination
12.	External Eye and fundus examination
13.	Breast examination
14.	Examination of the thyroid
15.	Lymph nodes examination
16.	PV examination
17.	Assessment of uterine fundus level in pregnancy
18.	PR examination
19.	Examining lumps

Annex I

Annex II

Basic diagnostic and intervention procedures	
1.	Performing venipuncture and collect blood samples.
2.	Inserting a cannula into peripheral veins.
3.	Establishing peripheral intravenous access and setting up an infusion; use of infusion devices
4.	Giving intramuscular, subcutaneous, intradermal and intravenous injections.
5.	Suturing of superficial wounds.
6.	Performing cardiopulmonary resuscitation and basic life-support
7.	Performing and interpreting basic bedside laboratory tests
8.	Performing and interpreting ECG
9.	Managing an electrocardiograph (ECG) monitor
10.	Taking swabs for different diagnostic purposes
11.	Using a nebulizer for administration of inhalation therapy
12.	Performing male and female bladder catheterization
13.	Administering basic oxygen therapy
14.	Wound care and basic wound dressing
15.	Managing Blood transfusion
16.	Inserting a nasogastric tube.
17.	Administering local anesthetics
18.	Performing the procedure of normal labor
19.	Performing the procedure of normal labor

Practical skills	
1.	Dissecting the different parts and organs of the human body
2.	Performing Biochemical and microscopic urine and stool analysis
3.	Performing basic biochemical blood tests
4.	Preparing urine and stool specimen for microscopic examination
5.	Identification of parasites and parasitic ova under the microscope
6.	Identification of different normal tissue sections under the microscope
7.	Identification of different pathological alterations in tissue sections under the microscope
8.	Identification of gross pathological alterations in different body organ specimens
9.	Determining blood group and performing cross matching and computability tests
10.	Preparing and examining blood films and assessing hemoglobin value in a blood sample
11.	Obtaining and handling a blood sample for culture
12.	Performing and interpreting basic respiratory function tests.
13.	Identifying different bacteria and fungi under the microscope
14.	Differentiating different bacterial growth in culture

Annex III

Annex IV: Matrix of Program ILO's with NARs ILO's

1- Graduate as a health care provider with NARS																	
Program	NARS																
	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17
1.1	*																
1.2		*															
1.3			*														
1.4				*													
1.5					*												
1.6						*											
1.7							*										
1.8								*									
1.9									*								
1.10										*							
1.11											*						
1.12												*					
1.13													*				
1.14														*			
1.15															*		
1.16																*	
1.17																	*

2- The graduate as a health promoter with NARS									
Program	NARS								
	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
2.1	*								
2.2		*							
2.3			*						
2.4				*					
2.5					*				
2.6						*			
2.7							*		
2.8								*	
2.9									*

3- The graduate as a professional with NARS									
Program	NARS								
	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9
3.1	*								
3.2		*							
3.3			*						
3.4				*					
3.5					*				
3.6						*			
3.7							*		

3- The graduate as a professional with NARS									
Program	NARS								
	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9
3.8								*	
3.9									*

4- The graduate as a scholar and scientist with NARS								
Program	NARS							
	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
4.1	*							
4.2		*						
4.3			*					
4.4				*				
4.5					*			
4.6						*		
4.7							*	
4.8								*

5- The graduate as a member of the health team and the health care system with NARS												
Program	NARS											
	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.10	5.11	5.12
5.1	*											
5.2		*										
5.3			*									
5.4				*								
5.5					*							
5.6						*						
5.7							*					
5.8								*				
5.9									*			
5.10										*		
5.11											*	
5.12												*

6- The graduate as a lifelong learner and researcher with NARS										
Program	NARS									
	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.10
6.1	*									
6.2		*								
6.3			*							
6.4				*						

6- The graduate as a lifelong learner and researcher with NARS										
Program	NARS									
	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.10
6.5					*					
6.6						*				
6.7							*			
6.8								*		
6.9									*	
6.10										*