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*Program specifications*

**Medicine and Surgery Bachelor Program – Credit Point**

**MSBP -CP**

**2023-2024**

**Bylaws 2018**



## Medicine and Surgery Bachelor Program – Credit Point MSBP –CP Program specifications

University: Tanta

Faculty: Medicine

### 1- Administrative Information

1- Program title: Medicine and Surgery Bachelor Program – Credit Point MSBP - CP

2- Program type: Single

3-Departments:

No.	Department Name		Department Code
	English	الاسم	
1	Anatomy and Embryology	التشریح الادمی وعلم الأجنحة	ANA
2	Histology and cell biology	علم الأنسجة وبيولوجيا الخلايا	HIST
3	Medical Biochemistry	الكيمياء الحيوية الطبية	BIO
4	Physiology	الفيسيولوجي الطبية (علم وظائف الأعضاء)	PHYS
5	Medical Pharmacology	الفارماکولوجيا الطبية	PHAR
6	Pathology	الباثولوجي (علم الأمراض)	PATH
7	Microbiology and immunology	الميكروبیولوجیا الطبیة والمناعة	MICR
8	Medical Parasitology	الطفیلیات الطبیة	PARA
9	Public Health and Community Medicine	الصحته العامة وطب المجتمع	COMM
10	Forensic Medicine and Clinical Toxicology	الطب الشرعي والسموم الإكلینیکیة	FMCT
11	Ophthalmology	طب وجراحة العيون	OPHT
12	Ear, Nose and Throat	الأذن والأنف والحنجرة	ENT
13	Internal Medicine	الباطنة العامة	MED



No.	Department Name		Department Code
	English	الاسم	
14	Neurology	الأمراض العصبية والنفسية	NEURO
15	Psychiatry	الأمراض الجلدية والتناسلية	PSYC
16	Dermatology	طب المناطق الحارة والأمراض المعدية	DERMVEN
17	Tropical Medicine and Infectious diseases	الأمراض الصدرية	TROP
18	Chest Diseases	الباتولوجي الإكلينيكية والكيميائية	CHEST
19	Clinical pathology	الروماتيزم والتأهيل والطب الطبيعي	CCP
20	Physical medicine, rheumatology, & rehabilitation	أمراض القلب والأوعية الدموية	PRR
21	Cardiology	الأشعة التشخيصية والتصوير الطبي	CARD
22	Radio Diagnostic and Medical Imaging	الاطفال	RAD
23	Pediatrics	التلدّي وأمراض النساء	PED
24	Obstetrics & Gynecology	الجراحة العامة	OBGYN
25	Surgery	جراحة العظام	SURG
26	Orthopedics Surgery	جراحة التجميل والاصلاح	ORTHO
27	Plastic and Maxillofacial Surgery	جراحة المخ والأعصاب	PLS
28	Neurosurgery	جراحة المسالك البولية والتناسلية	NEUROS
29	Urology	طب الطوارئ والإصابات	UROL
30	Emergency Medicine & Traumatology	جراحة القلب والصدر	EMERT
31	Cardiothoracic Surgery	جراحة الأوعية الدموية	CARS



No.	English	Department Name	Department Code
		الاسم	
32	Vascular Surgery	التخدير والعنایة المركزية الجراحية وعلاج الألم	VAS
33	Anesthesia & Intensive care and pain management	علاج الأورام والطب النووي	ANES
34	Clinical oncology and nuclear medicine	التعليم الطبي	ONM

Program Coordinator: Pro. Dr. Amal Baalash.

Internal evaluator: Pro. Dr. Azza Hassan

External evaluator: Pro. Dr. Gehan Sadak (El Monefyia Faculty of Medicine)

## 2- Professional Information

### 1- Program aims/objectives

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. To achieve this aim, the program is committed to equipping students with comprehensive basic medical knowledge, developing students' ability to apply medical information in solving clinical problems effectively, enhancing communication, intellectual, clinical, and leadership skills, integrating various disciplines of medicine to ensure holistic and efficient medical practice, providing students with elective opportunities to pursue areas of interest, encouraging lifelong learning and application of scientific research methodologies, instilling the principles and values of professional ethics, and aligning medical education depending on community based and workplace resources.

### 2- Competencies:

According to NARS 2017:

*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 1of 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 procedures2 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.

**Academic standards:**

- **Medical academic standards for Medicine and Surgery Bachelor Program – Credit Point MSBP -CP adopted by the faculty council in 24/3/2018 and offered by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE).**

**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

	الخامس				الرابع				الثالث				الثاني				الاول				المستوى	
	10	9	8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8	9	10	النقط	
162	19	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	اسائع دراسج	
300	30	31	28	32	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	نقط ينطج	
6000	600	620	560	640	580	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	درجات	

## 6- Courses contributing to the program:

Matrix of Courses / Program ILOS will be annexed (Annex II)

Year/Semester of program



**1- First Year:**

**A. Semester 1:**

Course code	Name	Course name			Total marks
		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		2	40	
ECS 1106	Early Clinical Skills	16	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		5	100
IHD 1205	Infection& Host defense	4	3	60



Course code	Course name			Total marks
	Name	Weeks	Credit points	
PRO1 1206	Professionalism 1	Cont.	3	60
ELC 1	Elective 1 (NM)		3	66
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	Cont	3	60
Total		16	30	600

B. Semester 4:

Course code	Course name			Total marks
	Name	Weeks		
End1&REP1 2201	Endocrinology1 & Reproductive	5		10 200



Course code	Name	Weeks	Course name		Total marks
NM 2202	<b>Nutrition &amp; Metabolism</b>	3			100
SS 2203	<b>Special sense</b>	3			100
URIN 2204	<b>Urinary system</b>	3	5		100
MG 2205	<b>Medical Genetics</b>	2	5		100
<b>Total</b>		16	30		600

**3- Third Year:**

**A. Semester 5:**

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

**B. Semester 6:**

Course code	Course name	Total



	Name	Weeks	Credit points	marks
SS2 3201	Special Senses 2 (ENT)	2	4	80
SS3 3202	Special Senses 3 (Ophthalmology)	3	5	100
CM 3203	Community medicine	3	6	120
ME 3204	Medical Ethics	2	2	40
MI 3205	Medical Informatics	2	3	60
RM 3206	Research Methodology2	2	3	60
PS 3207	Patient Safety	2	3	60
ELC 4	Elective 4		3	60
<b>Total</b>		<b>16</b>	<b>29</b>	<b>580</b>

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
<b>Total</b>		<b>16</b>	<b>32</b>	<b>640</b>



4- B. Semester 8:

Course code	Name	Course name		Total marks
		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	Cont	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

**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:

Matrix of Program Courses with Teaching Methods will be annexed (Annex II)

N	Method	Health care provider	Health promoter	Professional	Scholar and scientist	Member of the health team	Lifelong learner and researcher
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	X	X	X	X



#### 10- Methods for assessment:

N	Method	Health care provider	Health promoter	Professional	Scholar and scientist	Member of the health team	Lifelong learner and researcher
1	Formative WPBA with checklist	X	X	X		X	X
2	Written Examination	X	X		X		X
3	Presentation			X		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				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)	Report	
External Examiner(s)		



Evaluator	Tool	Sample
5. Other	-----	-----

#### References

1. National Academic References Standards (NARS) for medicine (2<sup>nd</sup> 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.....



<b>Basic diagnostic and intervention procedures</b>	
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



### Basic diagnostic and intervention procedures

#### 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



**Tanta University  
Faculty of Medicine  
Quality Assurance Unit**





**Annex I: NARS competencies /course**

**Competency Area I: The graduate as a health care provider**

Code	Module	ILOs															
		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
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		*	*								*	*	*			
PATH 1201	Principles of Pathology							*		*							
PARA 1202	Principles of Parasitology					*		*		*							*
PHAR 1203	Principles of Pharmacology								*	*		*					*
MIC	Principles of Microbiology									*							



Code	Module	ILOs															
		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
1204	Y																
IHD	Infection& Host defense									*							
1205																	
PRO1	Professionalism 1	*	*		*							*	*				
1206																	
FORN	Forensic Medicine								*	*							*
2101																	
CT	Clinical Toxicology	*	*	*		*					*		*				*
2102																	
CVS1	Cardiovascular system 1	*		*					*	*	*						
2103																	
NEU1	Neuroscience 1	*		*					*	*	*						
2104																	
BEH	Behavioral sciences	*	*	*	*	*	*	*									
2105																	
RM1	Research Methodology 1							*				*					
2105																	
End1&R	Endocrinology1 & Reproductive	*			*		*		*	*		*					*
EP1																	
2201																	
NM	Metabolism	*		*		*		*	*	*	*	*					
2202																	
SS	Special	*		*		*		*	*	*	*	*					
2203																	



Code	Module	ILOs															
		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
sense																	
URIN 2204	Urinary system	*		*	*	*		*	*	*						*	
MG 2205	Medical Genetics					*		*									
LOC 3101	Locomotors system1	*		*				*	*	*							
RESP 3102	Respiratory system1	*		*	*			*	*	*							
HEM1 3103	Hematology 1	*		*				*	*								
GIT1 3104	Gastrointestinal tracts 1	*		*	*			*	*	*							
PPC2 3105	Physician patient Communication 2	*	*	*	*	*				*			*				
SS2 3201	Special Senses 2 (ENT)	*		*		*				*							
SS3 3202	Special Senses 3 (Ophthalmology)	*			*					*			*				
CM 3203	Community medicine											*			*		



Code	Module	ILOs															
		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
ME 3304	Medical Ethics	*	*	*	*	*							*	*	*	*	
RM 3306	Research Methodology2											*					
PS 3307	Patient Safety							*					*		*		
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								*	*							
SUR1	Surgery 1	*			*	*				*				*			



Code	Module	ILOs														
		1	2	3	4	5	6	7	8	9	1	1	1	1	1	1
0	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1
5101																
EMER 5102	Emergency Medicine	*							*	*	*		*			*
PRO2 5103	Professionali sm 2	*	*	*	*	*						*	*	*		
SUR2 5201	Surgery 2	*	*	*	*	*	*	*	*	*		*			*	*
OBGYN 5202	Obstetrics and Gynecology	*	*			*				*		*	*			*





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									
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	*	*			*				



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		*					*		
End1&REP1 2201	Endocrinology1 & Reproductive					*	*			
NM 2202	Nutrition & Metabolism	*	*	*	*	*	*	*	*	
SS 2203	Special sense	*	*		*	*				
URIN 2204	Urinary system				*	*	*			
MG 2205	Medical Genetics							*		
LOC 3101	Locomotors system1	*	*		*	*				
RESP 3102	Respiratory system1	*	*		*		*	*		*
HEM1 3103	Hematology 1		*							
GIT1 3104	Gastrointestinal tracts 1	*	*		*		*	*		*



Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
PPC2 3105	Physician patient Communication 2				●	*				
SS2 3201	Special Senses 2 (ENT)	*				*	*	*		
SS3 3202	Special Senses 3 (Ophthalmology)	*				*	*	*		
CM 3203	Community medicine	*	*		*	*				
ME 3304	Medical Ethics	*								
RM 3306	Research Methodology2						*			
PS 3307	Patient Safety		*							*
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		*				*			
SUR1 5101	Surgery 1						*	*		



Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
EMER 5102	Emergency Medicine	●		*						
PRO2 5103	Professionalism 2	*	*			*				
SUR2 5201	Surgery 2	*	*				*			*
OBGYN 5202	Obstetrics and Gynecology	*	*		*		*	*		*

### 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	*			*	*	*			



Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
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	*	*	*	*	*			*	*
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	*								
End1&REP1 2201	Endocrinology1 & Reproductive	*								
NM 2202	Nutrition & Metabolism			*	*					



Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
SS 2203	Special sense	*								
URIN 2204	Urinary system	*				*		*		
MG 2205	Medical Genetics	*	*				*		*	
LOC 3101	Locomotors system1	*								
RESP 3102	Respiratory system1	*								
HEM1 3103	Hematology 1	*								
GIT1 3104	Gastrointestinal tracts 1	*								
PPC2 3105	Physician patient Communication 2	*			*					
SS2 3201	Special Senses 2 (ENT)	*			*	*	*			
SS3 3202	Special Senses 3 (Ophthalmology)	*			*	*	*			
CM 3203	Community medicine			*					*	
ME 3304	Medical Ethics	*	*	*	*	*		*		*
RM 3306	Research Methodology2	*		*						*
PS 3307	Patient Safety			*						*
MED1 4101	Medicine 1	*								



Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED2 4102	Medicine 2	*	*	*	*	*	*			*
Ped 4201	Pediatrics	*	*	*	*	*	*	*	*	*
CEB 4202	Clinical Epidemiology & Biostatistics	*	*							
FM 4203	Family Medicine	*	*	*	*					
EBM 4204	Evidence Based Medicine	*						*		
SUR1 5101	Surgery 1					*				
EMER 5102	Emergency Medicine	*			*	*				
PRO2 5103	Professionalism 2	*	*		*	*	*	*	*	*
SUR2 5201	Surgery 2	*	*		*	*	*			*
OBGYN 5202	Obstetrics and Gynecology	*			*					

**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	*	*	*					*



Code	Module	ILOs							
		1	2	3	4	5	6	7	8
PHYS 1103	Principles of Physiology	*	*						*
BIO 1104	Principles of Biochemistry	*	*	*					*
PPC 1 1105	Physician Patient Communication 1								
ECS 1106	Early Clinical Skills								
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								*
FORN 2101	Forensic Medicine								*
CT 2102	Clinical Toxicology							*	
CVS1 2103	Cardiovascular system 1	*	*			*			*
NEU1 2104	Neuroscience 1	*	*			*		*	*
BEH 2105	Behavioral sciences	*							



Code	Module	ILOs							
		1	2	3	4	5	6	7	8
RM1 2105	Research Methodology 1								*
End1&REP1 2201	Endocrinology1 & Reproductive	*	*	*		*	*	*	*
NM 2202	Nutrition & Metabolism	*	*			*	*	*	*
SS 2203	Special sense	*	*	*		*	*	*	*
URIN 2204	Urinary system	*	*	*		*	*	*	*
MG 2205	Medical Genetics	*				*			
LOC 3101	Locomotors system1	*	*			*			*
RESP 3102	Respiratory system1	*	*			*		*	*
HEM1 3103	Hematology 1	*	*			*		*	*
GIT1 3104	Gastrointestinal tracts 1	*	*			*		*	*
PPC2 3105	Physician patient Communication 2								
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
RM 3306	Research Methodology2					*			
PS 3307	Patient Safety							*	
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								*
SUR1 5101	Surgery 1					*	*	*	
EMER 5102	Emergency Medicine	*	*					*	*
PRO2 5103	Professionalism 2								*
SUR2 5201	Surgery 2	*	*	*		*	*		
OBGYN 5202	Obstetrics and Gynecology	•			*				



**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		*		*								
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
IHD 1205	Infection& Host defense			*									
PRO1 1206	Professionalism 1	*	*		*	*	*	*					*
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	*		*									
End1&REP1 2201	Endocrinology1 & Reproductive				*								
NM 2202	Nutrition & Metabolism			*									
SS 2203	Special sense	*	*							*			
URIN 2204	Urinary system		*										
MG 2205	Medical Genetics									*			
LOC 3101	Locomotors									*			



Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
system1													
RESP 3102	Respiratory system1									*			
HEM1 3103	Hematology 1				*		*						
GIT1 3104	Gastrointestinal tracts 1			*							*		
PPC2 3105	Physician patient Communication 2		*		*								
SS2 3201	Special Senses 2 (ENT)					*					*		
SS3 3202	Special Senses 3 (Ophthalmology)					*					*		
CM 3203	Community medicine			*	*				*				
ME 3304	Medical Ethics	*		*									
RM 3306	Research Methodology2		*		*			*					
PS 3307	Patient Safety	*				*			*			*	
MED1 4101	Medicine 1	*	*										



Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
MED2 4102	Medicine 2	*	*	*	*	*	*	*		*	*		
Ped 4201	Pediatrics	*	*			*	*					*	
CEB 4202	Clinical Epidemiology& Biostatistics	*											
FM 4203	Family Medicine	*			*				*	*			
EBM 4204	Evidence Based Medicine	*		*		*							
SUR1 5101	Surgery 1	*		*									
EMER 5102	Emergency Medicine				*								
PRO2 5103	Professionalism 2		*	*	*	*	*	*		*	*	*	
SUR2 5201	Surgery 2	*	*	*	*	*	*	*		*		*	
OBGYN 5202	Obstetrics and Gynecology		*										



**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		*	*			*				
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			*			*				



Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
PRO1 1206	Professionalism 1	*	*	*	*		*				
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	*	*				*		*		
End1&REP1 2201	Endocrinology1 & Reproductive			*				*			
NM 2202	Nutrition & Metabolism	*		*				*			
SS 2203	Special sense			*				*			
URIN 2204	Urinary system			*			*		*		
MG 2205	Medical Genetics			*							
LOC 3101	Locomotors system1			*				*			
RESP 3102	Respiratory system1			*				*			
HEM1 3103	Hematology 1			*				*			
GIT1 3104	Gastrointestinal			*				*			



Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
tracts 1											
PPC2 3105	Physician patient Communication 2			*							
SS2 3201	Special Senses 2 (ENT)			*					*		
SS3 3202	Special Senses 3 (Ophthalmology)			*				*			
CM 3203	Community medicine			*	*	*	*				
ME 3204	Medical Ethics			*					*		
RM 3206	Research Methodology2	*	*	*	*	*	*	*			*
PS 3207	Patient Safety	*									
MED1 4101	Medicine 1	*	*	*							
MED2 4102	Medicine 2	*	*	*	*	*	*				*
Ped 4201	Pediatrics		*	*							
CEB 4202	Clinical Epidemiology& Biostatistics	*		*				*		*	*
FM 4203	Family Medicine	*			*	*					
EBM 4204	Evidence Based	*						*	*		



Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
<b>Medicine</b>											
<b>SUR1 5101</b>	<b>Surgery 1</b>			*	*				*		
<b>EMER 5102</b>	<b>Emergency Medicine</b>					*					
<b>PRO2 5103</b>	<b>Professionalism 2</b>	*	*	*	*			*			
<b>SUR2 5201</b>	<b>Surgery 2</b>	*	*	*				*	*	*	
<b>OBGYN 5202</b>	<b>Obstetrics and Gynecology</b>	*									

#### Annex III: Teaching Tools box

Courses	Interactive online Lecture	TBL	Web based L	Patient L	Tutorial	Workshop				Field visit	CB L	PB L	Small group teaching	Bedside T	Ski II L.	Portfolio
						Media	Lab	Computer								
<b>Principles of Anatomy</b>	✓		✓			✓	✓									✓
<b>Principles of Histology, C. Biology</b>	✓	✓	✓		✓	✓	✓									✓
<b>Principles of Physiology</b>	✓		✓			✓	✓									✓
<b>Principles of Biochemistry</b>	✓		✓			✓	✓									✓
<b>PP</b>	✓	✓	✓			✓					✓					✓



Courses	Interactive online Lecture	TBL	Web based L	Patient L	Tutorial	Workshop			Field visit	Small group teaching		Bedside T	Skills L.	Portfolio
						Media	Lab	Computer		CB L	PB L			
Communication 1														
Early Clinical Skills	✓			✓		✓		✓					✓	
Principles of Pathology	✓		✓					✓			✓			✓
Principles of Parasitology	✓		✓				✓	✓						✓
Principles of Pharmacology	✓		✓				✓	✓			✓			✓
Principles of Microbiology	✓	✓	✓				✓	✓						✓
Infection& Host defense	✓	✓	✓			✓	✓	✓						✓
Professionalism 1	✓	✓	✓				✓				✓			✓
Forensic Medicine	✓		✓				✓	✓			✓			✓
Clinical Toxicology	✓		✓	✓			✓	✓			✓			✓
Cardiovascular system 1	✓		✓				✓	✓			✓			✓
Neuroscience 1	✓		✓				✓	✓			✓			✓
Behavioral sciences	✓		✓				✓							✓
Research Methodology 1	✓		✓					✓	✓		✓			✓
Endocrin.1	✓	✓	✓				✓	✓						✓



Courses	Interactive online Lecture	TBL	Web based L	Patient L	Tutorial	Workshop			Field visit	Small group teaching		Bedside T	Skills L.	Portfolio
						Media	Lab	Computer		CB L	PBL			
& Reproductive														
Nutrition & Metabolism	✓			✓	✓	✓					✓		✓	✓
Special sense	✓		✓	✓		✓	✓							✓
Urinary system	✓		✓	✓		✓	✓							✓
Medical Genetics	✓		✓			✓	✓							✓
Locomotor system1	✓		✓			✓	✓							✓
Respiratory system1	✓		✓			✓	✓							✓
Hematology 1	✓		✓			✓	✓							✓
Gastrointestinal tracts 1	✓		✓			✓	✓							✓
PP Communication 2	✓		✓			✓				✓				✓
Special Senses 2 (ENT)	✓		✓	✓		✓					✓	✓		✓
Special Senses 3 (Ophthalmology)	✓		✓	✓		✓					✓	✓		✓
Community medicine	✓		✓			✓				✓	✓			✓
Medical Ethics	✓		✓			✓	✓				✓			✓
Medical	✓		✓			✓	✓	✓						



Courses	Interactive online Lecture	TBL	Web based L	Patient L	Tutorial	Workshop			Fiel d visit	Small group teaching		Bedside T	Ski II L.	Portfolio
						Media	Lab	Computer		CB L	PB L			
Informatics														
Research Methodology 2	✓		✓			✓		✓	✓					✓
Patient Safety	✓		✓			✓				✓				✓
Medicine 1	✓	✓	✓	✓	✓	✓				✓		✓		✓
Medicine 2	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓
Pediatrics	✓	✓	✓	✓	✓	✓				✓		✓		✓
Clinical Epidemiology & Biostatistics	✓		✓			✓		✓			✓			✓
Family Medicine	✓	✓	✓			✓				✓				✓
Evidence Based Medicine	✓		✓					✓						✓
Surgery 1	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓
Emergency Medicine	✓	✓	✓	✓	✓	✓				✓	✓	✓		✓
Professionalism 2	✓	✓	✓			✓				✓				✓
Surgery 2	✓	✓	✓	✓		✓				✓	✓	✓		✓
Obstetrics and Gynecology	✓	✓	✓	✓		✓				✓	✓	✓		✓