



Tanta University
Faculty of Medicine
Quality Assurance Unit



Program specifications

Medicine and Surgery Bachelor Program – Credit Point
MSBP-CP

2023-2024

Bylaws 2023

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	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	Medical Physiology	الفسيولوجي الطبية (علم وظائف الأعضاء)	PHYS
5	Medical Pharmacology	الفارماكولوجيا الطبية	PHAR
6	Pathology	الباثولوجي (علم الأمراض)	PATH
7	Medical Microbiology and Immunology	الميكروبيولوجيا الطبية والمناعة	MI
8	Medical Parasitology	الطفيليات الطبية	PARA
9	Community Medicine and Public Health	الصحة العامة وطب المجتمع	COMM
10	Forensic Medicine and Clinical Toxicology	الطب الشرعي والسموم الإكلينيكية	FMCT
11	Ophthalmology	طب وجراحة العيون	OPHT
12	Ear, Nose and Throat	الأذن والأنف والحنجرة	ENT
13	Internal Medicine	الباطنة العامة	MED
14	Neurology and Psychiatry	الأمراض العصبية والنفسية	NEUR PSYC
15	Dermatology	الأمراض الجلدية والتناسلية	DERMVEN
16	Tropical Medicine and Infectious Diseases	طب المناطق الحارة والأمراض المعدية	TROPID
17	Chest Diseases	الأمراض الصدرية	CHEST
18	Clinical and Chemical Pathology	الباثولوجيا الإكلينيكية والكيميائية	CCP
19	Rheumatology, Rehabilitation & Physical Medicine	الروماتيزم والتأهيل والطب الطبيعي	RRP
20	Cardiology	أمراض القلب والأوعية الدموية	CARD
21	Radio Diagnostic and Medical Imaging	الأشعة التشخيصية والتصوير الطبي	RAD
22	Pediatrics	الاطفال	PED
23	Obstetrics & Gynecology	التوليد وأمراض النساء	OBGYN

No.	Department Name		Department Code
	English	العربية	
24	Surgery	الجراحة العامة	SURG
25	Orthopedics Surgery	جراحة العظام	ORTHO
26	Plastic and Reconstructive Surgery	جراحة التجميل والاصلاح	PLSTS
27	Neurosurgery	جراحة المخ والأعصاب	NEUROS
28	Urology	جراحة المسالك البولية والتناسلية	UROL
29	Emergency & Traumatology	طب الطوارئ والإصابات	EMERT
30	Cardiothoracic Surgery	جراحة القلب والصدر	CARTS
31	Vascular and Endovascular Surgery	جراحة الأوعية الدموية	VASCES
32	Anesthesia & Surgical Intensive care and pain management	التخدير والعناية المركزة الجراحية وعلاج الألم	ANASIP
33	Clinical oncology and nuclear medicine	علاج الأورام والطب النووي	ONCONU
34	Medical Education	التعليم الطبي	MEDED

Program Coordinator: Pro. Dr. Amal Baalash

Internal evaluator: Pro. Azza Hassan

External evaluator: Pro. Dina Khalifa (Alexandria Faculty of Medicine)

Data of approval:

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. 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.

3- 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: 310

5-1- Program duration:

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

5-2- Program structure:

I. Stage 1: Pre-clerkship stage:

- Five semesters (from semester 1 to semester 5)
- Duration of each semester ranges from 18 to 22 weeks (exams included)
- Each credit point at this stage equals 15 marks
- Four courses are pass or fail only: English, Social law, and Elective courses 1 & 2

II. Stage 2: Clerkship stage:

- Five semesters (from semester 6 to semester 10)
- Duration of each semester ranges from 20 to 24 weeks (exams included)
- Each credit point at this stage equals 20 marks
- One course is pass or fail only: Elective course 3

III. House officer: Internship for 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: 310 Elective: 9

5-2 ii- No. of Credit points of Pre-clerkship stage: No. 146.5 = 45.4 %

5-2 iii- No. of Credit points of Clerkship stage: No. 163.5 = 50.7 %

5-2 iv- No. of hours of course of Basic English: No. 1.5 = 0.4 %

5-2 v- No. of hours of course of Social Law: No. 1 = 0.3 %

5-2 vi- Program Levels (in credit-points system): 2 stages, 5 levels, 10 Semesters

Stage	Stage 1 (Pre-clerkship stage)					Stage 2 (Clerkship stage)					Total
Level	Level 1		Level 2		Level 3		Level 4		Level 5		
Semester	1	2	3	4	5	6	7	8	9	10	
Weeks	17	22	20	20	18	21	24	20	21	23	207
Credit points	26.5	33	30	30	27	31.5	36	30	31.5	34.5	310
Marks	317	495	451	405	407	570	720	600	630	690	5285

6- Courses contributing to the program:

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

Year/Semester of program

Stage one (Pre-clerkship stage)

1- First Year:

A. Semester 1:

Level one – Semester one

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-101	Principles of Human Body Structure	6	9	135
MED-102	Principles of Human Body Function and Biochemistry	5	7.5	113
MED-103	Basic Genetics	1	1.5	23
MED-104	Behavioral Science	1	1.5	23
MED-105	Medical Terminology	1	1.5	23
E-106	Elective 1**	2	3	Pass or Fail
UNI-107	Basic English**	1	1.5	

UNI-108	القضايا المجتمعية (Social Law)**	30h (2 h/W)	1	
Total		17	26.5	317

B. Semester 2:

Level one – Semester two

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-109	Principles of Disease and Therapeutics	6	9	135
MED-110	Principles of Infectious Diseases module	4	6	90
MED-111	Host Defense & Immune System module	4	6	90
MED-112	Blood& Lymphatic System module	4	6	90
BSS-113	Professionalism 1	2	3	45
BSS-114	Early Clinical Skills	2	3	45
Total		22	33	495
Total CP/ Level 1 = 59.5 CP, Total marks =812 M				

2- Second Year:

A. Semester 3:

Level two – Semester three

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-201	Locomotor System module	6	9	135
MED-202	Cardiovascular System module	5	7.5	113
MED-203	Respiratory system module	5	7.5	113
MED-204	Urinary System module	4	6	90
Total		20	30	451

B. Semester 4:

Level two – Semester four

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-205	Neuroscience & Special Sense module	6	9	135
MED-206	Endocrine & Reproductive module	6	9	135
MED-207	GIT module	6	9	135
E-208	Elective 2**	2	3	Pass/Fail
Total		20	30	405

Total CP/ Level 2 = 60 CP, Total marks=856 M

3- Third Year:

A. Semester 5:

Level three – Semester five

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-301	Nutrition & Metabolism module	3	4.5	68
MED-302	Infectious Diseases module	6	9	135
MED-303	Research methodology & Evidence Based Medicine module	3	4.5	68
MED-304	Forensic Medicine & Bioethics	5	7.5	113
BSS-305	Physician patient Communication 1	1	1.5	23
Total		18	27	407

Stage TWO (Clerkship stage)

B. Semester 6:

Level three – Semester six

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-306	Community Medicine	4	6	120
MED-307	Ophthalmology	6	9	180
MED-308	Ear & Nose & Throat	4	6	120
MED-309	Clinical Toxicology	3	4.5	90
MED-310	Patient safety	2	3	60
E-311	Elective Course 3**	2	3	Pass/Fail
Total		21	31.5	570

Total CP/ Level 3 = 58.5 CP

4- Fourth Year:

A. Semester 7:

Level four – Semester seven

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-401	Medicine 1	12	18	360
MED-402	Medicine 2	12	18	360
Total		24	36	720

B. Semester 8:

Level four – Semester eight

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-403	Pediatrics	11	16.5	330
MED-404	Family Medicine	3	4.5	90
MED-405	Geriatrics and Palliative therapy	2	3	60
MED-406	Clinical Oncology	2	3	60
MED-407	Investigative Medicine	2	3	60
Total		20	30	600
Total CP/ Level 4 = 66 CP , Total marks=1320 M				

5- Fifth Year:

A. Semester 9:

Level five – Semester nine

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-501	Surgery I	16	24	480
MED-502	Emergency Medicine	2	3	60
MED-503	Clinical epidemiology & Biostatistics module	2	3	60
BSS-504	Advanced Clinical Skills	1	1.5	30
Total		21	31.5	630

B. Semester 10:

Level five – Semester ten

Course Code	Course/Module Title	Weeks	Credit Points	Total Marks
MED-505	Surgery 2	10	15	300
MED-506	Obstetrics& Gynecology	10	15	300
BSS-507	Professionalism 2	2	3	60
BSS-508	Physician Patient Communication 2	1	1.5	30
Total		23	34.5	690
Total CP/ Level 5= 66 CP, Total marks=1320 M				

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, 2023.

9- Teaching Methods:

Matrix of Program competencies with Teaching Methods

N	Method	Health care provider	Health promoter	Professional	Scholar and scientist	Member of the health team	Lifelong learner and researcher
1	Large group sessions (Direct contact and online lectures)		X		X		X
2	Small group teaching (PBL/CBL)		X	X	X		X
3	Practical /Clinical activities	X		X	X	X	
4	Simulators / Mock patient/Skill lab	X	X	X			
5	Case conferences (Seminars)/ Research projects	X			X	X	X
6	Journal clubs /conference			X		X	X
7	Role models &/or Case-log/diary			X			

N	Method	Health care provider	Health promoter	Professional	Scholar and scientist	Member of the health team	Lifelong learner and researcher
8	Feedback and Reflection		X	X			
9	Web based	X	X	X	X	X	X

10- Methods for assessment:

Matrix of Program competencies with Assessment Methods

N	Method	Health care provider	Health promoter	Professional	Scholar and scientist	Member of the health team	Lifelong learner and researcher
1	Formative assessment	X	X	X		X	X
2	Written Exam (Final and Midterm)	X	X		X		X
3	Activities and Student Portfolio	X		X		X	
4	OSCE/OSPE	X	X	X	X	X	
5	Simulated Patients	X				X	
6	Written reports	X	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
4. External Evaluator(s) External Examiner(s)	Report	
5.Other	-----	-----

Fundamental physical examination skills

References

- **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.....

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.	Locomotors 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

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

Basic diagnostic and intervention procedures	
	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 I: Program ILOs /course

Competency Area I: The graduate as a health care provider

Course Code	Course/ Module Title	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MED-101	Principles of Human Body Structure								*	*								
MED-102	Principles of Human Body Function and Biochemistry										*							
MED-103	Basic Genetics						*		*	*	*							
MED-104	Behavioral sciences	*	*	*	*	*												
MED-105	Medical Terminology	*					*				*			*				
MED-109	Principles of Disease and Therapeutics								*		*		*				*	
MED-110	Principles of Infectious Diseases module						*		*		*						*	
MED-111	Host Defense & Immune System module						*		*	*				*			*	
MED-112	Blood& Lymphatic System module								*		*							
BSS-113	Professionalism 1	*	*		*	*							*	*	*			
BSS-	Early Clinical		*		*								*		*	*		

Course Code	Course/ Module Title	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
114	Skills																	
MED-201	Locomotor System module	*			*				*	*								
MED-202	Cardiovascular System module				*				*	*								
MED-203	Respiratory system module								*	*								
MED-204	Urinary System module								*									
MED-205	Neuroscience& Special Sense module	*			*				*	*								
MED-206	Endocrine & Reproductive module								*					*				
MED-207	GIT module								*									
MED-301	Nutrition & Metabolism module						*							*				
MED-302	Infectious Diseases module						*		*									
MED-303	Research methodology & Evidence Based Medicine module							*		*								
MED-304	Forensic Medicine & Bioethics	*							*	*					*			*

Course Code	Course/ Module Title	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
BSS-305	Physician patient Communication 1								*					*				
MED-306	Community Medicine													*				*
MED-307	Ophthalmology	*			*		*				*			*				
MED-308	Ear & Nose & Throat	*		*	*		*		*		*							
MED-309	Clinical Toxicology	*		*	*		*				*			*		*		
MED-310	Patient safety							*					*		*			
MED-401	Medicine 1	*			*													
MED-402	Medicine 2	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*
MED-403	Pediatrics	*	*		*		*		*	*	*	*	*	*	*	*	*	
MED-404	Family Medicine	*	*	*	*	*	*							*				
MED-405	Geriatrics and Palliative therapy	*	*	*	*													
MED-406	Clinical Oncology	*	*	*	*													
MED-407	Investigative Medicine	*	*	*	*	*												

Course Code	Course/ Module Title	ILOs																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MED-501	Surgery I	*			*		*				*			*				
MED-502	Emergency Medicine		*						*		*	*	*			*		
MED-503	Clinical epidemiology & Biostatistics module	*							*									
BSS-504	Advanced Clinical Skills	*	*	*								*	*			*		
MED-505	Surgery 2	*	*	*	*	*	*		*	*	*	*	*			*	*	
MED-506	Obstetrics& Gynecology	*	*				*				*		*	*				*
BSS-507	Professionalism 2	*	*		*	*							*	*	*			
BSS-508	Physician Patient Communication 2	*	*	*	*		*				*			*				

Competency Area II: The graduate as a health promoter

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED-101	Principles of Human Body Structure	*								
MED-102	Principles of Human Body Function and Biochemistry	*		*						
MED-103	Basic Genetics			*						
MED-104	Behavioral sciences	*	*							
MED-105	Medical Terminology									
MED-109	Principles of Disease and Therapeutics				*					
MED-110	Principles of Infectious Diseases module				*	*	*			*
MED-111	Host Defense & Immune System module	*				*				
MED-112	Blood& Lymphatic System module			*						
BSS-113	Professionalism 1	*	*			*				
BSS-114	Early Clinical Skills	*			*					
MED-201	Locomotor System module	*	*		*					
MED-202	Cardiovascular System module	*								
MED-203	Respiratory system module	*								
MED-204	Urinary System	*								

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
	module									
MED-205	Neuroscience& Special Sense module	*								
MED-206	Endocrine & Reproductive module	*						*		
MED-207	GIT module	*					*			
MED-301	Nutrition & Metabolism module				*	*				
MED-302	Infectious Diseases module				*	*	*			*
MED-303	Research methodology & Evidence Based Medicine module		*				*			
MED-304	Forensic Medicine & Bioethics								*	
BSS-305	Physician patient Communication 1							*		
MED-306	Community Medicine	*	*		*	*				
MED-307	Ophthalmology	*				*	*	*		
MED-308	Ear & Nose &Throat	*				*	*			
MED-309	Clinical Toxicology		*				*			
MED-310	Patient safety		*							*
MED-401	Medicine 1	*								
MED-402	Medicine 2	*	*	*	*	*	*	*		*
MED-403	Pediatrics	*	*	*		*		*		

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED-404	Family Medicine	*	*	*	*	*	*	*		
MED-405	Geriatrics and Palliative therapy	*	*	*					*	
MED-406	Clinical Oncology	*	*	*						
MED-407	Investigative Medicine	*	*		*					*
MED-501	Surgery I						*	*		
MED-502	Emergency Medicine	*		*						
MED-503	Clinical epidemiology & Biostatistics module				*		*			
BSS-504	Advanced Clinical Skills				*					*
MED-505	Surgery 2	*	*				*			*
MED-506	Obstetrics& Gynecology	*	*		*	*	*	*		*
BSS-507	Professionalism 2	*	*			*				
BSS-508	Physician Patient Communication 2					*	*			

Competency Area III: The graduate as a professional

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED-101	Principles of Human Body Structure	*								
MED-102	Principles of Human Body Function and	*								

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
	Biochemistry									
MED-103	Basic Genetics	*								
MED-104	Behavioral sciences	*	*	*	*	*			*	*
MED-105	Medical Terminology	*								
MED-109	Principles of Disease and Therapeutics	*								
MED-110	Principles of Infectious Diseases module	*								
MED-111	Host Defense & Immune System module	*								
MED-112	Blood& Lymphatic System module	*								
BSS-113	Professionalism 1	*		*	*	*			*	*
BSS-114	Early Clinical Skills	*			*	*	*			
MED-201	Locomotor System module	*								
MED-201	Cardiovascular System module	*								
MED-203	Respiratory system module	*								
MED-204	Urinary System module	*								
MED-205	Neuroscience& Special Sense module	*								
MED-206	Endocrine & Reproductive module	*								

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED-207	GIT module									
MED-301	Nutrition & Metabolism module		*	*						
MED-302	Infectious Diseases module	*								
MED-303	Research methodology & Evidence Based Medicine module	*						*		
MED-304	Forensic Medicine & Bioethics	*	*	*	*	*	*			*
BSS-305	Physician patient Communication 1	*								
MED-306	Community Medicine			*					*	
MED-307	Ophthalmology	*			*	*	*			
MED-308	Ear & Nose & Throat	*			*	*				
MED-309	Clinical Toxicology	*				*				
MED-310	Patient safety			*						*
MED-401	Medicine 1	*								
MED-402	Medicine 2	*	*	*	*	*	*			*
MED-403	Pediatrics	*	*	*	*	*	*	*	*	
MED-404	Family Medicine	*	*	*	*					
MED-405	Geriatrics and Palliative therapy	*	*	*						

Code	Module	ILOs								
		1	2	3	4	5	6	7	8	9
MED-406	Clinical Oncology	*	*	*					*	*
MED-407	Investigative Medicine	*				*	*		*	
MED-501	Surgery I					*				
MED-502	Emergency Medicine	*			*	*				
MED-503	Clinical epidemiology & Biostatistics module	*	*							
BSS-504	Advanced Clinical Skills	*	*	*	*	*	*	*	*	*
MED-505	Surgery 2	*	*		*	*	*		*	
MED-506	Obstetrics& Gynecology	*			*					
BSS-507	Professionalism 2	*	*		*	*	*	*	*	*
BSS-508	Physician Patient Communication 2	*			*					

Competency Area IV: The graduate as a scholar and scientist

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
MED-101	Principles of Human Body Structure	*	*	*					*
MED-102	Principles of Human Body Function and Biochemistry	*	*						*
MED-103	Basic Genetics	*				*			
MED-104	Behavioral sciences	*							

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
MED-105	Medical Terminology	*				*	*		*
MED-109	Principles of Disease and Therapeutics					*	*	*	*
MED-110	Principles of Infectious Diseases module					*	*		*
MED-111	Host Defense & Immune System module	*	*			*	*	*	*
MED-112	Blood& Lymphatic System module	*	*			*		*	*
BSS-113	Professionalism 1								*
BSS-114	Early Clinical Skills	*					*		*
MED-201	Locomotor System module	*	*			*		*	*
MED-202	Cardiovascular System module	*	*			*		*	*
MED-203	Respiratory system module	*	*	*		*	*	*	*
MED-204	Urinary System module	*	*	*		*	*	*	*
MED-205	Neuroscience& Special Sense module	*	*			*		*	*
MED-206	Endocrine & Reproductive module	*	*	*		*	*	*	*
MED-207	GIT module	*	*			*		*	*
MED-301	Nutrition & Metabolism module		*			*		*	*
MED-302	Infectious Diseases module					*	*		*

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
MED-303	Research methodology & Evidence Based Medicine module								*
MED-304	Forensic Medicine & Bioethics								*
BSS-305	Physician patient Communication 1								
MED-306	Community Medicine				*				
MED-307	Ophthalmology	*				*	*		
MED-308	Ear & Nose & Throat	*				*			
MED-309	Clinical Toxicology							*	
MED-310	Patient safety							*	
MED-401	Medicine 1	*							
MED-402	Medicine 2	*				*	*	*	*
MED-403	Pediatrics			*	*	*			*
MED-404	Family Medicine			*	*			*	
MED-405	Geriatrics and Palliative therapy			*	*	*			
MED-406	Clinical Oncology					*	*	*	
MED-407	Investigative Medicine	*			*		*		
MED-501	Surgery I					*	*	*	
MED-502	Emergency Medicine	*	*					*	*
MED-503	Clinical epidemiology & Biostatistics module					*			

Code	Module	ILOs							
		1	2	3	4	5	6	7	8
BSS-504	Advanced Clinical Skills								*
MED-505	Surgery 2	*	*	*		*	*		
MED-506	Obstetrics& Gynecology	*			*				
BSS-507	Professionalism 2								*
BSS-508	Physician Patient Communication 2								

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
MED-101	Principles of Human Body Structure			*									
MED-102	Principles of Human Body Function and Biochemistry				*			*					
MED-103	Basic Genetics				*		*						
MED-104	Behavioral sciences	*	*		*	*	*	*					
MED-105	Medical Terminology	*					*						
MED-109	Principles of Disease and Therapeutics			*				*					
MED-110	Principles of Infectious Diseases module		*	*			*						
MED-111	Host Defense & Immune System module				*		*						
MED-112	Blood& Lymphatic System module				*		*						
BSS-113	Professionalism 1		*		*	*	*	*					*
BSS-114	Early Clinical Skills		*		*		*				*		
MED-201	Locomotor System module				*		*			*			

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
MED-202	Cardiovascular System module				*		*						
MED-203	Respiratory system module		*										
MED-204	Urinary System module		*										
MED-205	Neuroscience& Special Sense module				*		*						
MED-206	Endocrine & Reproductive module		*		*		*						
MED-207	GIT module												
MED-301	Nutrition & Metabolism module		*										
MED-302	Infectious Diseases module		*	*			*						
MED-303	Research methodology & Evidence Based Medicine module	*		*		*							
MED-304	Forensic Medicine & Bioethics	*	*	*	*	*	*	*					
BSS-305	Physician patient Communication 1		*		*	*	*						
MED-306	Community Medicine			*	*				*				
MED-307	Ophthalmology					*							

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
MED-308	Ear & Nose & Throat					*				*			
MED-309	Clinical Toxicology		*					*					
MED-310	Patient safety	*		*		*			*			*	
MED-401	Medicine 1	*	*										
MED-402	Medicine 2	*	*	*	*		*	*			*	*	
MED-403	Pediatrics	*	*			*	*						*
MED-404	Family Medicine	*			*				*	*			
MED-405	Geriatrics and Palliative therapy	*	*	*									
MED-406	Clinical Oncology	*	*	*							*	*	*
MED-407	Investigative Medicine		*				*						
MED-501	Surgery I	*		*									
MED-502	Emergency Medicine				*								
MED-503	Clinical epidemiology & Biostatistics module		*										
BSS-504	Advanced Clinical Skills	*											
MED-505	Surgery 2	*	*	*	*	*	*	*		*	*		
MED-506	Obstetrics & Gynecology		*										

Code	Module	ILOs											
		1	2	3	4	5	6	7	8	9	10	11	12
BSS-507	Professionalism 2		*	*	*	*	*	*		*	*	*	
BSS-508	Physician Patient Communication 2												

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

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
MED-101	Principles of Human Body Structure			*			*				
MED-102	Principles of Human Body Function and Biochemistry			*			*				
MED-103	Basic Genetics						*				
MED-104	Behavioral sciences	*			*		*				
MED-105	Medical Terminology			*	*		*				
MED-109	Principles of Disease and Therapeutics			*			*				
MED-110	Principles of Infectious Diseases module			*	*						
MED-111	Host Defense & Immune System module			*			*				
MED-112	Blood& Lymphatic System module			*			*				
BSS-113	Professionalism 1	*	*	*	*		*				
BSS-114	Early Clinical Skills		*	*							
MED-201	Locomotor System module			*			*				
MED-202	Cardiovascular System module			*			*				
MED-203	Respiratory system			*			*				

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
	module										
MED-204	Urinary System module			*		*	*				
MED-205	Neuroscience& Special Sense module			*			*				
MED-206	Endocrine & Reproductive module	*	*	*							
MED-207	GIT module						*				
MED-301	Nutrition & Metabolism module			*			*				
MED-302	Infectious Diseases module			*	*						
MED-303	Research methodology & Evidence Based Medicine module	*	*			*			*		
MED-304	Forensic Medicine & Bioethics	*	*	*	*		*	*	*		
BSS-305	Physician patient Communication 1	*	*								
MED-306	Community Medicine			*	*	*	*				
MED-307	Ophthalmology			*			*				
MED-308	Ear & Nose &Throat			*					*		
MED-309	Clinical Toxicology		*	*	*						
MED-310	Patient safety	*									

Code	Module	ILOs									
		1	2	3	4	5	6	7	8	9	10
MED-401	Medicine 1	*	*	*							
MED-402	Medicine 2	*	*	*	*	*	*			*	
MED-403	Pediatrics		*	*							
MED-404	Family Medicine	*			*	*					
MED-405	Geriatrics and Palliative therapy			*			*	*	*		
MED-406	Clinical Oncology			*				*	*		
MED-407	Investigative Medicine	*									
MED-501	Surgery I			*	*						
MED-502	Emergency Medicine				*						
MED-503	Clinical epidemiology & Biostatistics module	*		*			*	*		*	*
BSS-504	Advanced Clinical Skills						*				*
MED-505	Surgery 2	*	*	*			*	*	*		
MED-506	Obstetrics& Gynecology	*									
BSS-507	Professionalism 2	*	*	*	*		*				
BSS-508	Physician Patient Communication 2				*						

Annex II: Teaching Facilities and Resources in Different Departments:

Department	New Learning and teaching & self-directed methods	Online learning and teaching methods
Anatomy and Embryology	- Anatomy museum for self-learning upon plastic models& Jars - Students research with presentation	- Lectures - Practical classes including dissection, museum jars x Ray films & video films
Histology and Cell Biology	- Small group classes - Students research with presentation	- Lectures - Practical sections
Medical Biochemistry	- Small group classes - Students research with presentation	- Lectures - Practical classes in laboratory
Medical Physiology	- Tutorials - problem based learning	- Lectures - Practical classes
Medical Pharmacology	- Tutorials - Applied modules	- Lectures - Practical classes
Pathology	- Small group classes - museum Jars - self-learning - case study	- Lectures - Practical sections
Medical Microbiology and Immunology	- Tutorials - Small group learning - Case study & problem based learning - Office hours - Self-learning projects	- Lectures - Practical classes
Medical Parasitology	- Tutorials - projects	- Lectures - Practical classes
Community Medicine and Public Health	- Small group learning - problem based learning - Assignment - Fields visits to (1ry health care units, centers, chest hospital ,	- Lectures

Department	New Learning and teaching & self-directed methods	Online learning and teaching methods
	delta industry)	
Forensic Medicine and Clinical Toxicology	- Small group discussions - Clinical training in Toxicology unit in emergency hospital - student revising group activities - problem based learning	- Lectures - Practical sections
Ophthalmology	- Attendance with guidance in: Wards, Outpatient clinical , live surgery, emergency shifts	- Lectures - Clinical rounds
Ear, Nose and Throat	- Attendance in: E.N.T wards Outpatient clinical	- Lectures - Clinical rounds
Internal Medicine	- case based learning tutorials - practical clinical techniques Assignment	- Lectures - Practical classes
Neurology and Psychiatry	- practical clinical techniques attendance - with guidance	- Lectures - Clinical rounds
Dermatology	- practical clinical techniques Assignment	- Lectures - Clinical sections
Tropical Medicine and Infectious Diseases	- Small group learning - Practical clinical technique - Tutorials - Assignment	- Lectures - Clinical rounds
Chest Diseases	- Self-learning Seminars	- Lectures - Clinical sections
Clinical and Chemical Pathology	-	- Lectures - Practical classes
Rheumatology, Rehabilitation & Physical Medicine	- problem based learning - practical clinical techniques Assignment	- Lectures - Clinical rounds

Department	New Learning and teaching & self-directed methods	Online learning and teaching methods
Cardiology	- Attendance in: E.R, inpatient wards	- Lectures
Radio Diagnostic and Medical Imaging	-	- Lectures - Practical classes
Pediatric	- Small group sessions cardiology pediatric inpatient ward teaching outpatient clinic teaching - Emergency department teaching - Neonatal unit teaching	- Lectures - Clinical rounds
Obstetrics & Gynecology	- Small group seminars case study - Clinical simulations Role plays	- Lectures - Clinical rounds
Surgery	- Tutorials - Attendance in surgical wards, ER, OR - Attendance outpatient clinic	- Lectures - Clinical rounds
Orthopedic Surgery	- Small group learning	- Lectures - Clinical rounds
Plastic and Reconstructive Surgery	- Small group learning	- Lectures - Clinical rounds
Neurosurgery	- Attendance of some operations	- Lectures - Practical classes
Urology	- Small group learning - Practical clinical technique - Assignment	- Lectures - Clinical rounds
Emergency & Traumatology	- Tutorials - Attendance in surgical wards, ER, OR - Attendance outpatient clinic	- Lectures - Clinical rounds
Cardiothoracic Surgery	- Small group learning attendance OR, ER, ICU	- Lectures - Clinical rounds

Department	New Learning and teaching & self-directed methods	Online learning and teaching methods
Vascular and Endovascular Surgery	- Small group learning	- Lectures - Clinical rounds
Anesthesia & Surgical Intensive care and pain management	-	- Lectures - Clinical rounds
Clinical oncology and nuclear medicine	- Small group learning	- Lectures - Clinical rounds
Medical Education	- Small group learning - problem based learning - Assignment	- Lectures

Annex III: Teaching Tools box

Module	Interact ive /online Lecture	TB L	We b bas ed L	Patie nt L	Tutor ial	Workshop			Small group teachin g		Bedsi de T	Ski ll L.	Portfo lio
						Med ia	La b	Compu ter	CB L	PB L			
Principles of Human Body Structure	√		√		√	√	√			√			√
Principles of Human Body Function and Biochemistry	√		√			√	√						√
Basic Genetics	√		√			√							√
Behavioral sciences	√		√			√							√
Medical Terminology	√		√			√		√					√
Principles of Disease and Therapeutics	√		√			√	√		√				√
Principles of Infectious Diseases module	√		√			√	√		√				√
Host Defense & Immune System module	√		√			√	√		√				√
Blood& Lymphatic System module	√		√			√	√		√				√
Professional	√	√	√			√				√			√

Module	Interactive /online Lecture	TB L	Web based L	Patient L	Tutorial	Workshop			Small group teaching		Bedside T	Skill L.	Portfolio
						Media	Lab	Computer	CB L	PB L			
Module 1													
Early Clinical Skills	✓		✓			✓						✓	✓
Locomotor System module	✓		✓			✓	✓						✓
Cardiovascular System module	✓		✓			✓	✓		✓				✓
Respiratory system module	✓		✓			✓	✓			✓			✓
Urinary System module	✓		✓			✓	✓			✓			✓
Neuroscience & Special Sense module	✓		✓			✓	✓			✓			✓
Endocrine & Reproductive module	✓	✓	✓			✓	✓						✓
GIT module	✓		✓			✓	✓			✓			✓
Nutrition & Metabolism module	✓			✓	✓	✓				✓		✓	✓
Infectious Diseases module	✓		✓			✓	✓						✓
Research methodology & Evidence Based Medicine module	✓		✓					✓					✓
Forensic Medicine & Bioethics	✓		✓			✓	✓		✓				✓

Module	Interactive /online Lecture	TB L	Web based L	Patient L	Tutorial	Workshop			Small group teaching		Bedside T	Skill L.	Portfolio
						Media	Lab	Computer	CB L	PB L			
Physician patient Communication 1	✓	✓	✓			✓			✓				✓
Community Medicine	✓		✓			✓			✓				✓
Ophthalmology	✓					✓				✓	✓		
Ear & Nose & Throat	✓	✓	✓	✓	✓	✓				✓	✓		✓
Clinical Toxicology	✓		✓	✓		✓	✓		✓				✓
Patient safety	✓			✓		✓	✓		✓				✓
Medicine 1	✓	✓	✓	✓	✓	✓			✓		✓		✓
Medicine 2	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓
Pediatrics	✓	✓	✓	✓	✓	✓			✓		✓		✓
Family Medicine	✓	✓	✓			✓			✓				✓
Geriatrics and Palliative therapy	✓		✓			✓			✓				✓
Clinical Oncology	✓		✓			✓			✓				✓
Investigative Medicine	✓		✓			✓			✓				
Surgery I	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
Emergency Medicine	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
Clinical epidemiology & Biostatistics module	✓		✓			✓		✓		✓			✓
Advanced Clinical Skills			✓			✓	✓					✓	
Surgery 2	✓	✓	✓	✓		✓			✓	✓	✓		✓
Obstetrics&	✓	✓	✓	✓		✓			✓	✓	✓		✓

Module	Interact ive /online Lecture	TB L	We b bas ed L	Patie nt L	Tutor ial	Workshop			Small group teachin g		Bedsi de T	Ski ll L.	Portfo lio
						Med ia	La b	Compu ter	CB L	PB L			
Gynecology													
Professional ism 2	√	√	√			√				√			√
Physician Patient Communica tion 2	√	√	√			√			√				√

