



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Medicine and Surgery Bachelor Program – Credit Point

MSBP -CP

Course/ Module Specifications

[Forensic Medicine and Bioethics]

Semester 5

2025 -2026

Code MED-304

1- Administrative Information

1. Program title: Medicine and Surgery Bachelor Program – Credit Point MSBP -CP
2. Course/ module title: Forensic Medicine and Bioethics
3. Course/ module code: MED-304
4. Course/ module coordinator: Prof. Manar Maher and Dr. Samar Magdy
5. Department(s) offering the module/course: Forensic Medicine & Clinical Toxicology
6. Academic year: 2025-2026
7. Level: 3, semester 5
8. Date of approval by:
 - Council of the Faculty of Medicine, Tanta University: 3-9-2025
9. No. of hours: 187 taught hours (150 hours Forensic Medicine + 37 hours Bioethics) + 3.75 hours exam

Credit points	%	Lectures	Practical/clinical (Media - SG)	Assignments	CBL	Activity	Exam	Taught hrs.
6 (Forensic Medicine)	Contact hrs 60%	45	45					90
	Self directed learning hrs 40%			40	10	10		60
1.5 (Bioethics)	Contact hrs 60%	11	11				3.75	22
	Self directed learning hrs 40%			10	5			15

2- Professional Information

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

3 – Course/ Module Description

This course provides medical students with basic knowledge of forensic medicine and Bioethics.

4– Overall Course Aim/Objectives

Aim:

1. To provide medical student with the basic background of medico-legal situations in clinical practice.
2. To acquire a basic scientific knowledge concerning Bioethics.
3. To develop appropriate ethical and professional behavior necessary for dealing with patients.

Objectives:

1. Provide medical students with the basic knowledge -as a future general practitioner- about the forensic pathology and forensic medical sciences.
2. Recognize the basic skills of dealing with forensic cases in their future careers.
3. Develop the student skills to write a primary medicolegal report as well as death certificate.
4. Help medical students to use the basic skills and knowledge to predict and define the medicolegal cases.
5. Develop the skills that protect doctors from mal practice and society from crimes and to help law comity in detect and solving the crimes by providing a good primary medical report that describes the wounds and the causative instrument also the wright Death certificate will do.
6. Provide the students with the basic methods of collecting and preserving samples and other physical evidences.
7. Recognize the meaning and the importance of Bioethics
8. Exhibit appropriate professional behaviors and relationships in all aspects of doctor - patient relationship regarding; honesty, integrity, commitment, compassion, confidentiality and respect.
9. Adhere to the professional standards and laws governing the practice, and abide by the national code of ethics issued by the Egyptian Medical Syndicate.
10. Contribute to the care of patients and their families at the beginning and at the end of their lives and during emergencies.
11. Recognize the ethical issues related to organ transplantation.

- 12. 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.**

5 - Intended learning outcomes (ILOs)

By the end of this course the student will be able to:

Competency Area I: The graduate as a health care provider

1.1. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.

1.1.1. Recognize different medico-legal aspects of living and dead individuals regarding personal identification, diagnosis of death and brain death, causes and manner of death, postmortem changes and differentiation between types of wounds and patterns in different areas and their complications (program ILO **1.8**).

1.1.2. Explain medicolegal (ML) aspects of different cases of sexual offences, delivery and abortion(program ILO **1.8**).

1.1.3. Explain different types of physical injuries and heat-related disorders and their medicolegal importance(program ILO **1.8**).

1.1.4. Recognize different types of violent asphyxia and their medicolegal importance(program ILO**1.8**).

1.2. Retrieve, analyse, 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).

1.2.1. Express systemic thinking and personal judgment in solving of medico-legal problems(program ILO**1.9**).

1.2.2. Interpret case scenario of clinical forensic medicine and recognize their medico-legal aspects.(program ILO **1.9**).

1.2.3. Interpret situations of uncertainty in medical practice by cooperating with other medical colleagues(program ILO **1.9**).

1.3. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification.

1.3.1. Develop the student skills to write a primary medicolegal report as well as death certificate(program ILO**1.17**).

1.3.2. Estimate time of death through assessment of postmortem changes and interval(program ILO**1.17**).

1.3.3. Classify different causes, mechanism and manner of death(program ILO1.17).

1.4. Adopt an empathic and holistic approach to the patients and their problems.

1.4.1 Perform and document a complete or focused physical and mental examination appropriate to the age, sex, acute and chronic illness while being culturally sensitive (program ILO 1.2.1).

1.5. Respect patients' rights and involve them and /or their families/carers in management decisions (program ILO 1.14).

1.6. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification (program ILO 1.17).

1.6.1. Recognize the medico-legal aspects of different problems of malpractice and role of physicians and/or surgeons to save the rights of the patients assaulted (program ILO 1.17.1).

1.6.2 Record clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes (program ILO 1.17.2).

Competency Area II: The graduate as a health promoter

2.1. Identify vulnerable individuals that may be suffering from abuse or neglect and take the proper actions to safeguard their welfare.

2.1.1. Discuss different patterns of wound in child and elderly abuse and their medicolegal importance.(program ILO2.8).

2.2. Explain the role of beneficence for students to motivate patient's spirit (program ILO 2.1).

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.

3.1.1. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards(program ILO 3.1).

3.1.2. Communicate clearly, sensitively and effectively with injured patients and their relatives, colleagues and also with his staff(program ILO3.1.3).

3.1.3. Respect all interactions with patients, families, colleagues and others with whom the physician must interact in their professional life (program ILO 3.1.2).

3.1.4. Exhibit appropriate professional behaviors and relationships in all Aspects of practice (program ILO 3.1).

3.1.5. Develop oneself by gain and apply inter-professional skills (program ILO 3.1).

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.

3.2.1. Practice the correct method for writing primary medicolegal report to avoid inaccuracies and errors (program ILO 3.2).

3.2.2. Demonstrate how to diagnose death and how to suspect about the manner of death (program ILO 3.2).

3.2.3. Practice the correct method for writing death certificates (program ILO 3.2).

3.2.4. Adopt the national code of ethics issued by the Egyptian medical syndicate (program ILO 3.2.1).

3.3. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.

3.3.1. Develop the skills that protect doctors from malpractice and society from crimes and to help law comity in detect and solving the crimes by providing a good primary medical report that describes the wounds and the causative instrument also the right death certificate will do (program ILO 3.6).

3.4. Respect the different cultural beliefs and values in the community they serve (program ILO 3.3.1).

3.4.1. Understand and respect the different cultural believes and values in the community they serve (program ILO 3.3.1).

3.5. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities (program ILO 3.4).

3.6. Ensure confidentiality and privacy of patients' information (program ILO 3.5).

3.7. 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 (program ILO 3.9).

Competency Area IV: The graduate as a scholar and scientist

4.1. 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.

4.1.1. Provide the students with the basic methods of collecting and preserving samples and other physical evidences(program ILO**4.8**).

4.1.2 Examine different wounds and injuries and write a proper primary wound report(program ILO**4.8**).

4.1.3. Estimate death by different clinical and investigatory methods (Program ILO **4.8**).

4.1.4. -Evaluate the identity of living and dead individuals and write a proper death certificate(program ILO 4.8).

4.1.5. Use safely and effectively specimens and instruments(program ILO 4.8).

4.2.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(program ILO 4.8).

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

5.1. 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.

5.1.1. Show good teamwork spirit and working in harmony through shared responsibilities and decision making for outstanding work(program ILO**5.2**).

5.2. Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work(program ILO5.3).

5.2.1. Work collaboratively in a team with other colleagues to maximize benefits(program ILO5.3).

5.2.3. Understand and respect the different cultural believes and values in the community they learn(program ILO 5.3).

5.3. Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.(program ILO5.4).

5.3.1. Practice leadership skills during practical and media sessions(program ILO 5.4).

5.4. Communicate effectively using a written health record, electronic medical record, or other digital technology(program ILO 5.5).

5.4.1. Consider the resources of biomedical information including the available electronic facilities to update his/her knowledge and to manage and manipulate information(program ILO5.5).

5.5. Evaluate his/her work and that of others using constructive feedback(program ILO).

5.5.1 Practice constructive feedback during practical and media sessions(program ILO 5.6).

5.6. Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary(program ILO5.7).

5.6.1. Practice constructive feedback and reflection from teachers and peers(program ILO 5.7].

5.6.2. Recognize self-defects and ask for help from teachers and peers when necessary(program ILO 5.7).

5.7. Recognize the important role played by other health care professions in patients' management (program ILO 5.1).

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(program ILO6.1).

6.1.1. Consider the information resources including the available electronic facilities to update knowledge and to manage and manipulate information(program ILO6.1).

6.2. Develop, implement, monitor, and revise a personal learning plan to enhance professional practice(program ILO 6.2).

6.2.1. Engage and revise personal learning plan to improve professional practice(program ILO6.2).

6.3. Identify opportunities and use various resources for learning(program ILO6.3).

6.3.1. Use effectively various learning resources(program ILO6.3).

6.3.2. Interacts positively with colleagues, peers and professors on web pages(program ILO 6.3).

6.3.3. Use various resources in collecting information (Web-based learning, Media)(program ILO 6.3).

6.4. Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice(program ILO6.4).

6.4.1. Develop collaborative learning to improve personal practice(program ILO 6.4).

6.4.2. Interpret problems of medical students in communicating with their colleagues, staff and administration(program ILO6.4).

6.5 Effectively manage learning time and resources and set priorities(program ILO 6.6).

6.5.1. Recognize the importance of time management and manage effectively the available resources and set priorities(program ILO 6.6).

6.6. Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability(program ILO 6.8).

6.6.1. Demonstrate insight into research and scientific methods through involvement of simple research(program ILO 6.8).

6.6.2. Recognition of the importance of precision in collecting, analyzing and interpreting medical data(program ILO6.8).

6 – Course/ Module Contents

Topics	No of hours					
	Lectures	practical	Media& Web based learning	SDL	Total Hours	ILOs covered
Forensic Medicine						
Medicolegal importance of age identification	2	2	2	2	8	1.1,3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Identification of sex	2	2	2	2	8	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medico-legal importance of identification	2			2	4	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6

Topics	No of hours					
How to identify a living person?			1	1	2	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of blunt & sharp force wounds	4	4	1	1	10	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Circumstances of injuries			1	1	2	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Causes of death from wounds	2			4	6	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of firearm injuries	4	4	1	3	12	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of head injuries	4	4	1	4	13	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of regional injuries	2		1	3	6	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of physical injuries	4	2	1	2	9	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Primary Medicolegal report	2	4	1	1	8	1.1, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Death & postmortem changes	2	2	1	2	7	1.1, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Death certificate		4	1	2	7	1.1, 3.1, 3.2, 3.6, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2,

Topics	No of hours					
						6.3, 6.4, 6.6
Asphyxia	4	4	1	2	11	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of brain death	2			1	3	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Fetal age		2	1		3	
Sexual offences	2		1	2	5	5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Medicolegal aspects of pregnancy, delivery & abortion	1			1	2	5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Non-accidental injuries in children	2	2	1	1	6	1.1, 2.8, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Suspicious death	2			2	4	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
Collection of evidence	2		1	2	5	3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6
CBL		6	1		7	All
Revision		2			2	
Bioethics						
Autonomy & Consent	1h	1 h		1	3	1.4, 3.2, 6.1
Privacy & Confidentiality	1h	1h		1	3	3.2, 3.6, 6.1
-Incompetent patient Surrogate decision making & advance directives	1h	1h		2	4	1.4, 1.5
Truth telling	1h	1 h		1	3	1.4, 1.5, 6.1

Topics	No of hours					
Ethics in emergency	1h	1 h		1	3	5.2,5.6, 6.1
Ethical dilemmas: Beginning of life issues	1h	1h		1	3	1.4, 6.1
Ethical dilemmas: End of life issue	1h	1 h		2	4	1.4,3.3,3.4,6.1
Organ transplantation	1h	1 h		1	3	1.4, 5.2,5.6,6.2
Research Ethics (1)	1h	1h	-	1	3	6.1,6.2,6.3,6.4,6.5, 6.6
Research Ethics (2)	1h	1h		1	3	6.1,6.2,6.3,6.4,6.5, 6.6
Ethics of Research Publication	1h	1h		1	3	6.1,6.2,6.3,6.4,6.5, 6.6
CBL		1 h		2	3	

7 - Teaching and learning methods

- Online lectures (videos and interactive)
- Small-group active learning
- Case-based small group discussion
- Oral presentation
- Multi-media
- Self-directed learning
- Home assignments
- Portfolio

Item	Time schedule	Teaching hours
Forensic Medicine		
Online lectures	4h /week	45
Practical	4h /week	45
Self-directed learning	4.8h/week	60

Total		150
Bioethics		
Lectures	1 hr /week	13
practical	2 hr/2week	12
Self-directed learning	1h/week	13
Total		38

8 - Student evaluation

8-1 COURSE POLICIES

8.1.1. Attendance:

Attendance is mandatory to all sessions. Due to the course emphasis in developing skills and not only knowledge, the students' participation in all course activities is critical. Students who expect to be late for a mandatory class, lab, or small group session for any reason must contact the course director before the start of class. Unexcused absences demonstrate unprofessional behavior by the student.

8-1-2 Remediation of Unsatisfactory Performance in Course

A student who performs below the satisfactory level will be notified to Course Director for the purpose of developing a formal remediation plan which will be established by the course director and the student.

8-1-3 Missing tests

- ' Students with accepted excuse for missing a test will have no grade for the missed test and their mean grade for tests will be based only on those that they completed.
- ' Students missing a test without sufficient reason will have a zero as grade for the missed tests, which will be incorporated to obtain the mean grade for their tests and the final grade for the course.

8-2 Course assessment:

Formative and summative assessment: they include:

1. Assignments (Electronic), Portfolio, and , Formative tests.

2. Written exams: MCQs in addition to ultrashort questions.(Electronic or paper based).

3. Practical skills assessment: Practical Exam. Portfolio

8-3 course assessment schedule and grading:

Grades are obtained based on the following complementary assessments:

Assessment Method	Date	Description	ILOs/Competencies assessed	Marks	% of Total
Forensic Medicine					
1.Continuous assessments	Through the semester	Portfolio	1.2,1.4,1.6,3.1,3.2,5.5,5.6	13	14.4
2- Mid-semester exam	Mid-semester	MCQ	5.5,5.6,6.1,6.2,6.4	14	15.6
3- Practical exam OSPE	End semester	OSPE	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.2,6.4	27	30
4- Final written exam	End semester	MCQ & Short Answered Questions, give reason, cases	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.2,6.4	36	40
Total				90	100
Bioethics					
Continuous assessments	Through semester				

Assessment Method	Date	Description	ILOs/Competencies assessed	Marks	% of Total
		1. Portfolio	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.2,6.4	3.5	15%
Mid-term exam		MCQ	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.4	3.5	15%
Practical exam	End semester	OSPE	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.4	6	30 %
Final written exam	End semester	40%MCQ& 60% SAQ	1.2,1.4,1.6,3.1,3.2,5.5,5.6,6.1,6.4	10	40%
Total				23	100%

9. Facilities required

- Lecture rooms with data show and computer facilities
- Large room (hosting 100 students) with 10 round table (equipped with 10 -15 chairs)
- Computer lab equipped with internet connection
- Computing resources
- Flip chart and colored pen
- A wall white board
- Facilities for photocopying

- Microsoft teams
- A u-shaped teaching halls with internet connection (hosting 24 students)

10 - List of references

TEXTBOOK, MATERIALS, READINGS, RESOURCES, TERMINOLOGY

Mandatory Textbook:

- Department Notes of forensic medicine, Faculty of Medicine Tanta University
- Simpson's Forensic Medicine, Twelfth Edition by Richard Shepherd
- Student's lecture note, principles of Bioethics, Faculty of Medicine Tanta University

Websites:

- www.forensicmedicineformedicalstudents.com
- www.internetpathologylaboratoryformedicaleducation.com
- www.emedicine.com

Recommended reference textbooks:

- Knight's Forensic Pathology, 3rd ed by Pekka Saukko and Bernard Knight
- WMA, Medical Ethics Manual, 3rd ed. 2015
- Professionalism and ethics handbook for residents
- Electronic Materials, Web Sites etc.

Course coordinator: Prof. Dr Manar Maher and Dr.Samar magdy

A) Summary of topics matched with competencies' domains ILOs in the module

The name of course	University: Tanta /Academy					
Code of course	Faculty: Medicine					
Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Forensic Medicine						
Online lectures:						
Medicolegal aspects of age	√			√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
identification						
Medicolegal aspects of sex identification	√			√	√	√
Medico-legal importance of identification	√				√	√
Medicolegal aspects of blunt & sharp force wounds	√			√	√	√
Medicolegal aspects of head injuries	√			√	√	√
Causes of death from wounds	√				√	√
Medicolegal aspects of firearm injuries	√			√	√	√
Medicolegal aspects of regional injuries	√			√	√	√
Medicolegal aspects of physical injuries	√			√	√	√
Death & postmortem changes	√			√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Primary medicolegal report	√				√	√
Asphyxia	√		√	√	√	√
Medicolegal aspects of heat related disorders	√				√	√
Sexual offences & pregnancy	√				√	√
Medicolegal aspects of pregnancy, delivery & abortion	√				√	√
Medicolegal aspects of brain death	√			√	√	√
Child and elderly abuse	√	√			√	√
Collection of evidence	√			√	√	√
Suspicious death	√		√	√	√	√
Practical						
Identification of age	√		√	√	√	√
Identification of sex	√		√	√	√	√
Blunt force wounds	√		√	√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Sharp force wounds	√		√	√	√	√
Head injuries (blunt)	√		√	√	√	√
Head injuries (sharp)	√		√	√	√	√
Ballistics	√		√	√	√	√
MLR	√		√	√	√	√
Death certificate	√	√	√	√	√	√
Asphyxia	√		√	√	√	√
Review	√	√	√	√	√	√
Media						
Age identification	√		√	√	√	√
How to identify a living person?	√		√	√	√	√
Circumstances of injuries	√		√	√	√	√
Head injuries	√		√	√	√	√
Firearm injuries	√		√	√	√	√
MLR	√		√	√	√	√
Death certificate	√	√	√	√	√	√
Diagnosis of death	√		√	√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Asphyxia	√		√	√	√	√
Physical injuries	√		√	√	√	√
Child and elderly abuse	√	√	√	√	√	√
Collection of evidence	√		√	√	√	√
Wounds case scenarios	√		√	√	√	√
Revision	√	√	√	√	√	√
SDL						
Bioethics						
Online lectures:						
Autonomy & Consent	√		√			√
Privacy & Confidentiality	√		√			√
-Incompetent patient	√		√		√	
-Surrogate decision making & advance directives						
Truth telling	√		√			
Ethics in emergency	√	√	√		√	

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Ethical dilemmas: Beginning of life issues	✓		✓	✓		
Ethical dilemmas: End of life issue	✓		✓	✓	✓	
Organ transplantation	✓		✓	✓	✓	
Research Ethics (1)				✓		✓
Research Ethics (2)				✓		✓
Ethics in research publication				✓		✓
Practical						
Autonomy & Consent	✓		✓			✓
Privacy & Confidentiality	✓		✓			✓
-Incompetent patient	✓		✓		✓	
-Surrogate decision making & advance directives						
Truth telling	✓		✓			
Ethics in emergency	✓	✓	✓		✓	
Ethical dilemmas: Beginning of life	✓		✓	✓		

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
issues						
Ethical dilemmas: End of life issue	✓		✓	✓	✓	
Organ transplantation	✓		✓	✓	✓	
Research Ethics				✓		✓
Ethics in research publication				✓		✓

B) Summary of topics, schedule, and methods of teaching & assessment, ILOs assessed, hours and marks of the module:

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Forensic Medicine							
Online lectures:							
Medicolegal aspects of age identification	<ul style="list-style-type: none"> - Define identification - Recognize types of identification - Discuss methods of Identification Of age in a living person. -Identify ages of medico-legal importance in Egypt 	1	Online interactive	MCQ, ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	
Medicolegal aspects of sex identification	<ul style="list-style-type: none"> -Discuss the medicolegal importance of sex identification -Describe methods of sex Identification in a living person. - Diagnose differentially inter sex States 	1	Online interactive	MCQ ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Medico-legal importance of identification	<ul style="list-style-type: none"> -Recognize medicolegal importance Of fingerprints and footprints. - Describe medicolegal importance of teeth examination - describe medicolegal importance of Clothes examination. - Discuss medicolegal importance of Genetic markers. - recognize role of sex chromatin in Identification. - Recognize medicolegal importance of tattoo marks, nails and other evidence as a method of Identification. 	2	Online interactive	MCQ ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Medicolegal aspects of Blunt & sharp force wounds	<ul style="list-style-type: none"> - Identify wounds - Mention different classifications of wounds - Discuss medico-legal aspects of wounds inflicted by blunt or sharp instruments as regards definition, causative instrument, mechanism of infliction, characters, subtypes, wound dating and medicolegal Importance. - Differentiate between cut and contused wounds. - Define fabricated and defense wounds and their medicolegal Significance. - D.D between ante mortem and mortem wounds -Differences between homicidal and suicidal 	2,3	Online interactive	MCQ ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	4	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Causes of death from wounds	<ul style="list-style-type: none"> - Mention causes of death from Wounds. - Discuss medicolegal aspects of different causes of death from wounds as neurogenic shock, hemorrhage, embolism and Infection. - Recognize physician role in case of death from wounds. 	3	Online interactive	MCQ Ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	
Firearm injuries	<ul style="list-style-type: none"> - Mention different firearm weapons. - Recognize characteristics of firearm injuries - Differentiate between inlet and exit of firearm. - Differentiate between firearm injuries from puncture wound. - discuss causes of death in case of firearm injury. - Discuss physician role in 	4	Online interactive	MCQ ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	4	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	victims with firearm injuries.						
Death & PM changes	<ul style="list-style-type: none"> - Define death and discuss its types. - discuss the importance of determination of clinical death. - describe medicolegal aspect of suspended animation. - Recognize early signs of death. - Discuss postmortem changes and its medicolegal importance - Differentiate between bruises and hypostasis. - Estimate approximate postmortem interval. 	4	Online interactive	MCQ	1.1, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	3	
Primary medicolegal report	<ul style="list-style-type: none"> -Know who has the right to request medical report for legal purposes -Recognize what Do and Not to do while writing medical reports. -Identify types of Medical 	5	Online interactive	MCQ	1.1, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	reports -Define primary medical report and its importance. -Enumerate reasons for inaccuracies in primary medical reports -Discuss forging medical certificates -Recognize pillars of forging medical certificates. -List items of the medical report. -Discuss role of physician while writing medical reports.						
Head injuries	- Recognize medicolegal aspects of scalp injuries - Discuss types of skull fractures, meningeal hemorrhages and brain injuries (causative instruments, mechanism of infliction, characters and dangers).	5,6	Online interactive	Mcq Ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6		

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<ul style="list-style-type: none"> - Explain the definition, mechanism & medico-legal importance of lucid interval - Medicolegal importance of coup and countercoup. - Discuss role of the physician in cases of head injuries to avoid malpractice litigation 						
Physical injuries	<ul style="list-style-type: none"> - Define different types of physical injuries - Compare between different types Ofburns. - Discuss mechanism of death from Burns. - Differentiate between A.M &P.M burns - Discuss physician role in victims with physical injuries - Recognize electrical injuries and Fatalities 	6,7	Online interactive	MCQ Ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6		

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Asphyxia	<p>Define asphyxia, classify types of asphyxia and explain its stages.</p> <ul style="list-style-type: none"> - Mention different types of violent asphyxia - Identify its characteristic manifestations of each type of violent asphyxia. - Recognize cause of death in each type of violent asphyxia - Discuss physician role in dealing with victims of asphyxia. 	7,8	Online interactive	MCQ	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	4	
Sexual offences	<ul style="list-style-type: none"> - Define different types of sexual offences - Characterize types of wounds in each type - Discuss legal aspects of rape and Other sexual crimes. - List types of hymen with specific attention to hymens of medicolegal Importance. 	8	Online interactive	MCQ	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<ul style="list-style-type: none"> - Recognize signs of virginity. - Discuss role of general practitioner in case of sexual offences 						
Medicolegal aspects of pregnancy, delivery & abortion	<ul style="list-style-type: none"> - Discuss medicolegal aspects of pregnancy and delivery - Diagnose pregnancy and delivery in medicolegal cases. - Mention legal definition of abortion - Discuss medicolegal aspects of abortion - List types and complications of abortion - Mention indications and precautions of therapeutic abortion - Determine the intra-uterine fetal ages. - Recognize causes of death in case of criminal abortion 	9	Online interactive	MCQ Ultrashort	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Non accidental injuries in children	<ul style="list-style-type: none"> -Define what is meant by domestic violence -Define child and elderly abuse. -List types of child and elderly abuse -Discuss common features of abuse in children and elder -Recognize causes of death in fatal child abuse -Differentiate between fatal child abuse and common murder. - Discuss the role of physician in domestic violence 	9	Online interactive	MCQ Ultrashort	1.1, 2.8, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Regional injuries	<ul style="list-style-type: none"> -Mention types of injuries in neck, chest, abdomen, pelvis, limbs and spinal cord. -Discuss causative instrument and mechanism of infliction of each type and its medicolegal significance -Discuss physician role in victims 	10	Online interactive	MCQ	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	with injuries in neck, chest, abdomen, pelvis, limbs and spinal cord to avoid medical error						
Medicolegal aspects of brain death	<ul style="list-style-type: none"> - Define brain death - Demonstrate types of brain death - Discuss precautions taken before certifying brain death 	10	Online interactive	MCQ	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Collection of evidence	<ul style="list-style-type: none"> - Define and value forensic evidence - Recognize types of forensic evidences - Identify chain of custody. - Describe the common circumstances where analysis may be requested. - Recognize role of the physician and precautions in collecting, storage of samples, stains and specimens. 	11	Online interactive	MCQ Ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	-Discuss types of evidences and methods for collection in cases of wounds, firearm injuries, sexual assaults and in acute poisoning.						
Suspicious death	-Define sudden death and unexpected death -List common causes of sudden death in adults and in children -Mention points for the diagnosis of the cause of death in such cases. - Recognize dead cases that give rise to suspicions in cause or manner of death. - Discuss role of the physician on suspension of the cause of death.	11	Online interactive	MCQ Ultrashort	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Practical							
Blunt force wounds	Differentiate between injuries and diagnose types of wounds	1	Jars, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	caused by blunt instrument. -Diagnose the causative instrument and possible cause of death from findings of wound examination.				6.2, 6.3, 6.4, 6.6		
Sharp force wounds	-Differentiate between injuries and diagnose types of wounds caused by sharp instrument. -Diagnose the causative instrument and possible cause of death from findings of wound examination.	1	Jars, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Ballistics	-Identify the extracted missiles or related products of firing	2	Samples of ballistics, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	
Head injuries (blunt)	- Recognize different types of skull fractures caused by blunt instrument through examination of skulls and X rays - State the causative instruments	3	Jars, bone samples, photos, x-ray CT	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	and predict potential complications of these injuries.						
Head injuries (sharp)	Recognize different types of skull fractures caused by sharp instrument through examination of skulls and X rays - State the causative instruments and predict potential complications of these injuries.	3	Jars, bone samples, photos, x-ray CT	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Physical injuries	- Differentiate between and diagnose types of physical injuries. - State the causative agent. - Predict possible complications.	4	Photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Asphyxia	-Differentiate between hanging and strangulation - diagnose other types of asphyxia death through their circumstances.	5	Photos, jars	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
MLR	Practice how to write a proper	6	Photos	OSPE, CA	1.1, 3.1, 3.2,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	primary medico-legal report in different types of injuries				5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6		
Diagnosis of death	<ul style="list-style-type: none"> - Identify signs used in diagnosis of Death. Identify early and late signs of postmortem changes. - Diagnose different conditions mistaken with some postmortem changes. 	7	photos	OSPE, CA	1.1, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Death certificate	<ul style="list-style-type: none"> - Discuss importance of death certificate. - Recognize the Egyptian system and the physician role in writing death certificate - Write death certificate in cases of natural and un-natural death 	7	Case scenario, Format of death certificate	OSPE, CA	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Identification of age	<ul style="list-style-type: none"> - Estimate ages of unknown skeletal remains from 	8	Bone samples, x-	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	epiphyseal union		ray		5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6		
Identification of sex	Diagnose differentially male and female skeletal remains (skull, sternum, mandible and hip bone)	9	Bone samples, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Non- accidental injuries in children	-Classify types of child abuse -Describe patterns of injuries in physical child abuse -Recognize role of physician on suspicion of child abuse	10	Photos, x-rays	OSPE	1.1, 2.8, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Fetal age	-Estimation of age of fetus.	11	Photos	OSPE	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Media							
Age identification	- Estimate unknown ages of skeletal remains from epiphyseal union	2,3	Audio-visual, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
How to identify a living person?	- Estimate unknown ages of a living person through X-ray examination	2,3	Audio-visual, X-ray	OSPE	3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Circumstances of injuries	- Recognize different circumstances of injuries in forensic practice - Differentiate between accidental, suicidal and homicidal injuries - Discuss the role of physicians in different circumstances of injuries	4		OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Wounds case scenarios	-Discuss case scenarios of different types of injuries	4	Photos	CA	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Firearm injuries	- Diagnose firearm wounds - Identify the causative weapon. - Recognize the mechanism of	5	Audio-visual, photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	firing.						
Head injuries	<ul style="list-style-type: none"> - Recognize different types of skull fractures and intracranial hemorrhages - Demonstrate mechanism of countercoup brain injury in deceleration injuries through watching and discussing some video clips 	8	Audio-visual, photos, X-ray	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Physical injuries	<ul style="list-style-type: none"> - Differentiate between and diagnose types of physical injuries. - State the causative agent. -Predict possible complications. 	10	Photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Asphyxia	<ul style="list-style-type: none"> -Recognize general signs of asphyxia -Classify types of violent asphyxia -Identify probable and highly suggestive signs of drowning 	11	Photos	OSPE	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Fetal age	-Estimation of age of fetus.	11	Photos	OSPE	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
MLR	Practice how to write a proper primary medico-legal report in different types of injuries	12	Photos	OSPE, CA	1.1, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6	1	
Death certificate	<ul style="list-style-type: none"> - Discuss importance of death certificate. - Recognize the Egyptian system and the physician role in writing death certificate - Write death certificate in cases of natural and un-natural death 	13	Case scenarios	OSPE, CA	1.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Collection of evidence	<ul style="list-style-type: none"> - List types of samples to be collected in different forensic cases. - Demonstrate how to collect, preserve and document evidence (samples). 	14	Audio-visual, photos	OSPE, CA	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Self-directed learning							
Bioethics							
Autonomy & Consent	-Knows definitions of autonomy and consents. -Recognizes intent of autonomy and consents	1	interactive	MCQ Ultrashort	3.2,3.5,3.7,6.3	2	
Privacy & Confidentiality	-Define privacy and confidentiality. -Recognize scope of privacy and confidentiality. -Know measures to be taken in health care facilities to insure application of privacy and confidentiality. -Understand medicolegal importance of privacy and confidentiality.	2	interactive	MCQ Ultrashort		2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
-Incompetent patient -Surrogate decision making & advance directives	-Define competence and capacity	3	interactive	MCQ	3.1,3.3,3.7, 6.3	2	
	-Recognize the value of determining patients' capacity			Ultrashort			
	-Outline how determine the patient's capacity						
	-Define advance directives and outline its role in medical decision-making.						
	-Identify who can be the appropriate decision-maker for an incompetent patient.						
	-Describe how surrogate decision-making proceeds						
	-Understand how to resolve the ethical issues which may arise from surrogate decision-making.						

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Truth telling	<p>-Discuss the importance, general principles, and ethical issues of truth-telling in the medical practice for patients and families.</p> <p>-Determine the ethically acceptable conditions for not telling the truth to patients or their families.</p> <p>-Recognize particular conditions for telling the truth with great caution for patients.</p> <p>-Identify the Legal and policy implications of truth-telling and disclosure of medical errors.</p>	4	interactive	MCQ Ultrashort	1.14,1.17,3.7,6.3	2	
Ethics in emergency	<p>- . Identify the difference between emergency cases and other medical cases</p>	5	interactive	MCQ Ultrashort	3.7,5.1,5.3, 6.3	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<ul style="list-style-type: none"> - Know the bioethical principals of emergency medicine - Describe medical and imperative in emergency medicine - Formulate a general plan for rapid decision-making in emergency situations 						
Ethical dilemmas: Beginning of life issues	<ul style="list-style-type: none"> -List the potential ethical issues in Prenatal diagnosis and foetal right -Comprehend the maternal foetal conflict -List the ethico-legal issues involved in assisted reproduction -Explain the ethico-legal issues of various methods of contraception -Explain the ethico-legal issues in 	6	interactive	MCQ Ultrashort	1.14,1.17,3.7,6.3	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<p>pregnancy termination</p> <p>-Describe and explain the ethico-legal issues in gender selection operations (gender reassignment surgery).</p>						
Ethical dilemmas: End of life issue	<p>-Define why it is important to know about end-of-life issues</p> <p>-Identify the ethical principles related to end-of-life issues</p> <p>-List end-of-life issues.</p> <p>-Understand difference between withdrawal and withholding of artificial life support.</p> <p>-Identify the expression of Do Not Resuscitate (DNR) order.</p> <p>-Understand the definition and types of assisted death.</p>	7	interactive	MCQ Ultrashort	1.14,1.17,3.7,6.3	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Organ transplantation	<ul style="list-style-type: none"> - Identify organ transplantation and know its importance. - Recognize the ethical issues related to global organ transplantation - Formulate a general plan for organ transplantation in practice 	8	interactive	MCQ Ultrashort	1.1,1.14,5.1,5.3,6.3	2	
Research Ethics (1)	<ul style="list-style-type: none"> -Identify History of Research Ethics -Recognize Principles of Human Subject Protection -Define Ethical requirements of medical research -Discuss issues related to informed consent 	9	interactive	MCQ Ultrashort	1.1,1.17.1,6.3	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Research Ethics (2)	<ul style="list-style-type: none"> -Define Role of research governance -Define the researcher and sponsors Responsibilities -Discuss conflict of Interest -Describe Ethical Principles of animal research 	10	interactive	MCQ Ultrashort	1.14,6.3,6.6	2	
Ethics of Research Publication	<ul style="list-style-type: none"> -It is prestigious to have many published research papers -Publication is a way to make a career and have promotions in your work -Disseminate your work in the medical community -Citation of your research by other authors in their work will raise your research index score. -Sharing of research results make 	11	interactive	MCQ Ultrashort	6.3,6.6,6.7	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	you known persons to other researchers with whom you may have the opportunity to share new research activities and get invited to conferences.						

C) Course – program ILOs Matrix/

Course ILOs Program ILOS		Healthcare provider						Health promoter		Professional							Scholar & scientist		Health team & System							The graduate as a lifelong learner and researcher					
		1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	3.1	3.2	3.3	3.4	3.5	3.6	3.7	4.1	4.2	5.1	5.2	5.3	5.4	5.5	5.6	5.7	6.1	6.2	6.3	6.4	6.5	6.6
Competency y 1	1.1																														
	1.2				*																										

Course ILOs		Healthcare provider					Health promoter		Professional					Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher				
Program ILOS																									
	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																								

Course ILOs		Healthcare provider					Health promoter		Professional					Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher				
Program ILOS																									
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Competency 2	2.1							*																	
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Competency 3	3.1								*																
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Course ILOs		Healthcare provider					Health promoter					Professional					Scholar & scientist					Health team & System					The graduate as a lifelong learner and researcher				
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Competency 4	4.1																														
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Course ILOs		Healthcare provider					Health promoter		Professional					Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher				
Program ILOS																									
Competency 5	4.7																								
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Course ILOs		Healthcare provider					Health promoter		Professional					Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher				
Program ILOS																									
Competency 6	5.12																								
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Head of the Department: