

Forensic Medicine & Toxicology

Departmental Objectives:

At the end of the course in Forensic Medicine, the undergraduate student will be able to:

1. To produce competent, compassionate, reflective and dedicated health care professionals according to national goal. Practice medical and medico-legal works as per national goals and objectives.
2. Examine medico-legal cases and prepare reports or certificates in accordance with the law of land.
3. Perform medico-legal postmortem examination and interpret autopsy findings and results of relevant investigations to logically conclude the cause, manner and time since death.
4. Practice medicine ethically with humanly etiquette, discharge duties promptly and execute legal responsibilities of the physician toward his patient, profession, society, state and humanity at large.
5. Prevent and protect himself from medical and legal mishap.
6. Identify and apply relevant legal provisions applicable to the medico-legal and medical practice.
7. Collect, preserve and dispatch specimens in medico-legal case and other concerned materials to the appropriate Government agencies for necessary examination.
8. Diagnose, apply principles of management and understand medico-legal implications of common poisons.
9. Apply general principles of analytical, environmental, occupational and preventive aspects of toxicology.
10. Explain legal provision related to medical and medico-legal practice

List of Competencies to acquire:

1. Perform ethical medical practice and maintain proper doctor-patient relationship.
2. Capable to give deposition in the court of law as a medical expert.
3. Collect, preserve and dispatch the medico-legally important specimen.
4. Prepare, dispatch and store the proper medical records.
5. Perform proper examination of victim/assailant of physical assault and sexual assault.
6. Perform medico-legal examination (impotency, age determination, sex determination, mental fitness, mental state)
7. Perform medico-legal autopsy and interpret the findings.
8. Prepare certificates and medico-legal reports according to the law of the land.
9. Prepare referral or discharge certificate and death certificate properly and authentically as per ICD-10.
10. Supervise and guide the medical team/practitioner regarding the ethical and legal consequence related to medical issues.
11. Handling dead body ethically and morally.
12. Explain legal provision and guide members related to medical and medico-legal practice
13. Record the dying declaration.
14. Diagnose and declare the death of a person.

The goal of teaching forensic Medicine in the undergraduate medical course is to produce a physician who will be well informed and alerts about his/her medico-legal responsibilities and is capable of being discharging medico-legal duties in medical practice.

Finally, on the basis of above context, those who are concern with Forensic medicine should initiate the thinking to redesign the curriculum where appropriate and give emphasis on those aspects in teaching learning and assessment of the students in under graduate medical education in Forensic Medicine.

Distribution of teaching - learning hours

Lecture	Tutorial	Practical	Total teaching hours	Integrated Teaching hour for Phase III	Formative		Summative	
					Preparatory leave	Exam time	Preparatory leave	Exam time
100 hrs	45 hrs	40 hrs + 12 days (8 days at mortuary + 4days for court visit, Police Station, OCC visit & DNA/Forensic lab visit)	185hrs + 12 days	20hrs	07 days	12 days	07 days	12 days
<i>Time for integrated teaching, examination, preparatory leave of formative & summative assessment is common for all subjects of the phase</i>								
Related behavioral, professional & ethical issues will be discussed in all teaching learning sessions								

Teaching-learning methods, teaching aids and evaluation

Teaching methods				Teaching aids	In course evaluation
Large group	Small group	Self learning	Others		
Lecture Integrated teaching	Practical: Demonstration, Exercise, project work Tutorial: Classroom exercise, Question answering session, Brain-storming and discussion, Role play Problem solving exercise	Assignment, self study & self assessment	Video & slide presentation. Community Oriented teaching and learning. 10days in mortuary 6 days in OCC, Court visit, Police station visit & Forensic Lab visit	Multimedia. Camera (Still & Video);OHP), Slide Projector, Black board;Flip chart, Handout / Charts, Reading materials, Paper cutting/Film strip, Textbook Questionnaire, Video film or slide tape	Item exam Card final Term exam Term final exam (Written+SOE+ Practical)

3rd Professional Examination:

Marks distribution of Assessment of Forensic Medicine: Total marks – 300

- Written =100 (MCQ+ SEQ+ SAQ+ FA)
 - MCQ-20 (50% SBA+50% MTF),
 - SEQ(Structured Essay Question)-20,
 - SAQ-50 (Short Answer Question) +
 - FA(formative assessment) marks 10
- Structured Oral Examination= 100
- Practical=50, OSPE= 40 & Others (PM report, Injury certificate & Practical assignment)=10

Related Equipments, Aids, Specimen / Models:

- Post-mortem video tape, TV, Cassette Player (available on different events/topics).
- Module on Teaching Health Ethics (WHO, CME and BM&DC)
- Module on mass disaster;
- Sexual Assault examination kit; MR Kit; Microscope; X-ray view box; chomaograph; X-ray film.
- Autopsy instrument set, dummy and photographs showing all major types of injuries and other cases.
- Specimen of poisons and related instruments (Ryles tube, stomach wash tube etc.)
- Weapons: Mechanical weapons, Firearms and ammunitions.

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section -01: Introduction to Forensic Medicine
and
Recent advances in Forensic Medicine

Learning Objectives	Contents	Teaching hrs
<p>At the end of session the student will be able to-</p> <ul style="list-style-type: none"> • define forensic medicine, medical Jurisprudence. Differentiate forensic medicine from medical jurisprudence. • explain the attributes and skills of physician for successful medico-legal practice • describe DSD.Explain why combination of all tests are now practiced instead gene based test only. • define and classify consent.Describe the reason of taken consent.Identify the criteria of valid consent. • describe the elements of informed consent.List the indication of informed consent • list the documents constitute medical records.describe the medical and legal purpose of keeping medical record. • describe the reason for identification of dead in disaster. • describe the procedure of identification of deceased in disaster victim(DVI). • describe the legal issues related to age of child. • describe the types,management of sports injury. Explain the medicolegal aspect related to sports medicine. • describe the information provided by exam of a blood& hair • list the blood groups. Describe the Medico-legal issues of blood group. • differentiate hair from fiber, animal hair from human. • define DNA profiling. Describe the method of DNA profiling. • describe the samples collected for DNA profiling (living/dead) • describe the composition of semen; Mention its mL • describe the importance of visit of crime scene and function of forensic lab. 	<p>Core</p> <ul style="list-style-type: none"> • Introduction to Forensic Medicine& its subdivision; medical jurisprudence • Recent advances in Forensic Medicine <ul style="list-style-type: none"> ○ Emerging issues in sex verification and disorder of sex development(DSD) ○ Medico-legal issues in consent; ○ Euthanasia: legal,social and humanitarian aspect ○ Legal and ethical issues in medical records. ○ Legal issues in End life care & Paliative care ○ Age of child: legal perspective ○ Analytic and Clinical toxicology • Mass disaster: Introduction, effect, management strategies, disaster victim identification (DVI). • Sports medicine (type, mechanism, management and prevention of sports injuries). • Forensic science: <ul style="list-style-type: none"> ○ Trace evidence(blood stain, blood group, hair, semen); ○ DNA Profiling. <p>Optional:</p> <ul style="list-style-type: none"> • <i>Forensic science</i>: <ul style="list-style-type: none"> ○ criminalistics, ○ crime scene investigation, ○ forensic lab. • Cybercrime, Basics of ICT. • History and landmarks of Forensic medicine • HLA typing and Bioinformatics 	<p>L-9hrs T-4hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section-02: Legal aspect (Legal structure; court procedure)

Learning Objectives	Contents	Teaching hours
<p>At the end of session the student will be able to-</p> <ul style="list-style-type: none"> • define and classify courts Bangladesh. • describe the power and function of session courts and magistrate courts of Bangladesh. • define offence. Give examples of criminal offence. • define and enlist the sentence approved in law. describe death reference. • briefly describe various medico-legal systems . • define summon, evidence, deposition, perjury, dying deposition, witness, and hostile witness. • explain the parts of deposition. • describe the procedure of recording evidence/ deposition in court of law. • list the medical documentary evidences. Explain each type of evidence and witness. • describe the procedure of taken dying declaration. • differentiate dying declaration from dying deposition. • explain the conducts of a doctor as an ideal witness. • prepare medical certificate & report authentically as per expectation of court. 	<p>Core:</p> <ul style="list-style-type: none"> • Legal structure (courts) of Bangladesh and their jurisdiction: <ul style="list-style-type: none"> ○ Supreme Court, High Court, Sessions Court, Additional Sessions Court, Magistrates Court, Metropolitan Magistracy. ○ Sentence ○ Medico-legal system of Bangladesh; coroners system; Medical examiners system; continental Medico-legal systems. • Legal (Court) procedures: <ul style="list-style-type: none"> ○ Summons: definition, duties ○ Evidence, perjury, deposition, parts of deposition, procedure of recording evidence, court questions. ○ Witness, types of witness, conduct of doctor in witness box. ○ Legal provision related for medical practice • Medical certification and Medico-legal reports including dying declaration and medical documentary evidence. <p>Additional:</p> <ul style="list-style-type: none"> ○ The Penal code; CrPc, Evidence act, Organ transplant act, Consumers protection act; MTP act; Workmen’s compensation act ○ Legal terminology applicable in court procedure. 	<p>L-4hrs T-2hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology

Section 3: Medical Jurisprudence (Medical ethics)

Learning Objectives	Contents	Teaching hours
<p>The student will be able to –</p> <ul style="list-style-type: none"> • define ethics, etiquette. Describe etiquettes of a good doctor. • explain the codes of Geneva declaration and its importance. • describe the duties as per International code of medical ethics. • explain the functions of BM&DC. Mention composition of it. • describe the procedure and type of disciplinary action taken by BM&DC. • describe the rights and privileges of a registered medical practitioner. • describe the rights of patients. Mention the duties of patients. • explain the responsibilities and duties of physician. • define professional secrecy and privileged communication. • describe the rules of professional secrecy. • describe the conditions in which the physician can ignore the rules of secrecy. • define Doctor Patient Relationship. Explain elements of it. • explain the skills of effective doctor patient relationship. • describe the issues in relation to DPR. • describe models of doctor patient relationship. • define infamous conduct, covering, dichotomy & malpraxis. • describe the component of infamous conduct with example. • explain the element to be proved in a plea of malpraxis. • differentiate civil from criminal malpraxis. • list the examples of criminal malpraxis and civil malpraxis. • explain the measures to prevent malpraxis. • explain the defenses of a doctor in malpraxis case. • describe therapeutic misadventure, medical maloccurrence, product liabilities. • describe the procedure of dealing ethical dilemma and conflict. • describe the ethical and legal issues in end life care. 	<p>Core</p> <ul style="list-style-type: none"> • Medical ethics: <ul style="list-style-type: none"> ○ WMA declaration Geneva declaration, international code of medical ethics ○ BMDC: Bangladesh Medical & Dental Council (BMDC), its constituents, functions and disciplinary control. professional death sentence. ○ Right & privilege, Duties. <ul style="list-style-type: none"> ➤ Rights and privileges of a doctor. ➤ Rights of patients. ➤ Duties of a medical practitioner toward patients & society, Professional secrecy & privileged communication. ○ Doctor-patient relationship; Component; Skills ○ Fairness and Equity; Specific Health Issues; Jargons in the field of medical ethics. ○ Code of Medical ethic of BMDC ○ Malpractice <ul style="list-style-type: none"> ➤ Ethical malpractice: Professional Infamous conduct ➤ Professional (Medical) Malpractice: civil and criminal Negligence ➤ Precautions, prevention & defences against pprofessional negligence. ➤ Vacarious liability, Contributory negligence, Corporate negligence; Res ipsa loquitor. Novus actus internen. ○ Medical maloccurrence; Product liability. ○ Applied ethics and research ethics ○ Soft skill and humanities; End life care; palliative care <p>Additional:</p> <ul style="list-style-type: none"> • Code and law of medical ethics, its history • Tokyo declaration 1975, Helsinki declaration .Other important WMA declaration • Ethical review board. Procedure of ethical review in a research proposal. Dealing ethical dilemma and conflict. • Organ transplant Act. MTP Act. Consumers Protection Act • Legal provision related to medical practice. 	<p>L-10hrs T-04hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section 4: Forensic Pathology (L-24hrs; T-16hrs)

Learning Objectives	Contents	Teaching hours
<p>The student will be able to-</p> <ul style="list-style-type: none"> • define autopsy. Describe types of autopsy. • describe the objective of medico-legal autopsy. • describe the prerequisite of medico-legal autopsy. • describe the procedure of external and internal examination. • describe cause of negative and obscure autopsy. • describe the procedure of exhumation and second autopsy. • describe the rules of autopsy. Mention the hazards of autopsy. • list the viscera preserved for chemical analysis. • define inquest. Describe the content of an inquest. List the indication of magistrate inquest. • describe the safe working and proper utilization of a modern morgue and laboratory facilities. <p>Additional:</p> <ul style="list-style-type: none"> • describe the special procedure in HIV/Corona, custodial death, mutilated and highly decomposed. • describe the methods of dead body preservation. • describe the procedure of autopsy as per UNHCR 	<p>Core</p> <p>01. Autopsy:</p> <ul style="list-style-type: none"> • Definition; Type; prerequisite; objective; • Procedure: external, internal (opening body cavity, 3rd incision, removal of viscera, internal exam) and laboratory procedure; Report writing; opinion. • Collection and dispatch of specimen. • Inquest report: definition, type, content, magistrate inquest. • Modern morgue. • Exhumation: definition, procedure; importance; 2nd autopsy. • Forensic anthropology: Post Mortem exam of mutilated and skeletal remains. <p>Additional:</p> <ul style="list-style-type: none"> • Virtual autopsy procedure, Academic autopsy; • Special Autopsy & disposal of radioactive corpse. • Recommendation of autopsy as per human right commission. • Clinical autopsy: Legal formalities, Procedure; Precaution; Importance • Methods of preserving dead body. 	<p style="text-align: center;">L-5hrs T-4hrs</p>

Forensic Pathology-contt

<p>At the end of session the student will be able-</p> <ul style="list-style-type: none"> • describe the modes of death. Mention the unnatural death. • give examples of death due to asphyxia, coma and syncope. • describe the changes after death.Mention changes in eyes. • define hypostasis. Differentiate hypostasis from bruise. • define rigor mortis. • explain the mechanism, sequence of appearance and medico-legal importance of rigor mortis. • define putrefaction, adipocere formation & mummification. • describe the mechanism, cardinal sign, external features and medico-legal importance of putrefaction, adipocere formation and mummification. • describe the procedure to estimate time since death. • define sudden death. Describe the cause & ML imp of it. • list the postmortem artifacts. Explain its importance. • describe the autopsy finding to be looked in custodial death. • list the questions to be answered to assess the fatality and liability in anesthetic and operative deaths. 	<p>Core:</p> <p>02. Death</p> <ul style="list-style-type: none"> • Mood and manner of death (natural/ unnatural) <ul style="list-style-type: none"> ➤ Asphyxia; syncope; coma • PM changes after death: <ul style="list-style-type: none"> ➤ Immediate ➤ Early change: skin change, eye change, cooling of body, hypostasis, rigor mortis ➤ Late change: putrefaction, adipocere formation and mummification • Post mortem artifacts: Resuscitative artifact, agonal artifact and postmortem artifact. • Sudden death. • Custodial death. • Anaesthetic and operative deaths. <p>Additional:</p> <ul style="list-style-type: none"> • Radioactive carbon(C₁₄) estimation • Forensic entomology • Death due to occupational and environmental hazards • Dead body management & handling in disaster 	<p style="text-align: center;">L-6hrs T-3hrs</p>
<p>The student will be able to-</p> <ul style="list-style-type: none"> • define infanticide.Describe the signs of live born, stillborn and dead born. Differentiate live born from dead or stillborn. • describe the cause of death in case of infanticide and its modes of death. • describe maceration, spalding sign and umbilical cord change. 	<p>Core</p> <p>03. Infanticide: definition, legal bearing, cause of death, mode of death.</p> <ol style="list-style-type: none"> a. Dead born(def, spalding sign, maceration) b. Live born c. Still born <p>Additional:</p> <ul style="list-style-type: none"> • Precipitated labor • Cot death, SIDS, foeticide • Death due to neglect 	<p style="text-align: center;">L-2hrs T-1hrs</p>

Forensic Pathology-contt

<p>The student will be able-</p> <ul style="list-style-type: none"> • define hanging, strangulation, drowning, smothering, choking. • describe the types of hanging, strangulation & drowning. • describe postmortem findings of hanging, strangulation and drowning. • describe the cause of death and medico-legal imp of hanging and strangulation. • differentiate hanging from postmortem suspension and strangulation. 	<p>Core:</p> <p>04. Violent asphyxial death:</p> <ul style="list-style-type: none"> ➤ Hanging: def, types, cause of death, mechanism of death, PM finding, ML imp. ➤ Strangulation: definition, type, throatling, ligature strangulation,cause of death,PMfinding,ML imp. ➤ Drowning: Definition, types, pathophysiology, PM findings, cause of death, ML imp. ➤ Suffocation: smothering, choking, and gagging. 	<p>L-5hrs T-3hrs</p>
<p>Students will be able to -</p> <ul style="list-style-type: none"> • describe the medico-legal importance of crush syndrome. • describe the features of traumatic asphyxia. • describe the cause of traffic accident and objectives of autopsy in traffic wound. • explain the injuries sustained by pedestrian, driver, motorcyclist, and passenger. • describe the objectives of autopsy in traffic accident. describe importance of seat belt syndrome. • define forensic ballistic.classify firearms. list the composition of cartridge. Enumerate diferent cartridges. • differentiate exit from entry firearm wound. Describe the features of suicidal firearm arm injuries. • describe the composition of bomb and effects of bomb blast. <ul style="list-style-type: none"> • define joule burn. describe complication of electrocution. • describe the cause of death and postmortem features of electrocution. 	<p>Core</p> <p>05.Wound: (L-6hrs; T-3hrs)</p> <ul style="list-style-type: none"> • Transportation wound: <ul style="list-style-type: none"> ➤ Trauma in RTA; cause, preventive device (helmet, seat belt syndrome); ➤ Injuries sustained by pedestrian; driver, motorcyclist; passenger; Crush syndrome. ➤ Objectives of autopsy in traffic wounds. • Firearm and explosives: <ul style="list-style-type: none"> ➤ Fire arms, cartridge composition, fire arm injuries (entry and exit) according to range, medico-legal aspect. ➤ Bomb blast and explosion • Electrocution and lightning. • Autopsy (mass disaster) protocol <p>Additional:</p> <ul style="list-style-type: none"> • Transportation: Trauma in Railway disaster; River traffic, Air crush. 	<p>L-6hrs T-2hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section 5: Clinical Forensic Medicine (L-18hrs; T-12hrs)

Learning Objectives	Contents	Teaching hours
<p>At the end of session the student will be able to-</p> <ul style="list-style-type: none"> • define& classify death. Differentiate death from suspended animation.Mention the medico-legal importance of somatic death. • mention the signs of brain stem death. Describe the diagnostic criteria of brain death. • describe the criteria to declare death. Define death trance. Prepare death certificate as per ICT-10. 	<p>01. Death:</p> <ul style="list-style-type: none"> ➤ Basic of death: definition, type, ML imp of somatic death; signs of death; cause, manner, mechanism of death; Brain death: types, signs, diagnostic criteria. ➤ Declaration of death. ➤ Suspended animation; presumption of death 	<p>L-2hrs T-2hrs</p>
<ul style="list-style-type: none"> • define injury, wound, hurt, battery, assault and homicide. • list the components of grievous hurt. • classify homicide with examples. Describe the defense and fabricated wound.Mention the cause of death due to wound. • classify wounds. Describe the consequence of wound. • define, classify and describe the medico-legal importance of abrasion, bruise, laceration, incised and punctured wound. • how to determine the age of wound(abrasion,bruise,incised). • describe the features of incised wound and chop wound. • differentiate incised wound from incised looking wound; suicidal from homicidal cut throat wound; antemortem from postmortem wound; homicidal,suicidal & accidental wound. • describe the types of skull fracture, types of intracranial hemorrhage and brain injuries. Mention whiplash injury. • describe flail chest; describe the effect of chest wound • define domestic violence. Briefly describe features of BBS. • describe Manchausen syndrome; Battered wife syndrome. • define burn, scald. Describe the types, management, complication and cause of death in burn. • define torture. Describe the methods and effects of torture. 	<p>02. Wound:</p> <ul style="list-style-type: none"> • Medico-legal aspect: injurywound, hurt, battery; grievous hurt;cause of death due to wound; homicide; defense wound;fabricated wound. • Mechanical wound:abrasion,bruise,laceration, incised wound and puncture wound • Regional injury: <ul style="list-style-type: none"> ○ Head injury: Scalp, skull fracture, Intra cranial hemorrhage, brain injuries. ○ whiplash injury.Crush syndrome. • Domestic Violence:Battered Baby syndrom(BBS); Manchausen syndrome; violence against women. • Thermal injury: Heat (Burn scald) and cold. • Torture • Neglect and starvation <p>Additional: Chest injury,abdominal injury,genital injury and extremity injury.</p>	<p>L-09hrs T-04hrs</p>

Clinical Forensic Medicine-Contt

Learning Objectives	Contents	Teaching hours
<p>The student will be able to-</p> <ul style="list-style-type: none"> • explain the medico-legal issues in marriage. describe when marriage become null and void. Outline conditions where a women can demand divorce. • differentiate between true & false virginity, impotency & sterility. describe the causes of impotency & sterility in male or female. Outline the procedure to examine impotency case. describe the medico-legal issues. • describe the prerequisite and procedure of examination of victim or accused of sexual assault. • identify signs of rape and other sexual offences with their medico-legal importance. Describe the complications of rape. • classify hymen. Differentiate fimbriated from ruptured hymen. • describe the genital and extragenital sign of virginity. • describe collection, preservation, and dispatch of swab, blood, stains, hair and body fluid. • describe different sexual deviations 	<p>CORE:</p> <p>03. Forensic aspect of sex:</p> <ul style="list-style-type: none"> • Medico-legal aspect related with marriage. • Impotency, sterility; Medico-legal aspect. • Legitimacy; Paternity and maternity. • Hymen: Type, cause of rupture; medico-legal aspect. • Virginity and defloration. <p>Sexual offences:</p> <ul style="list-style-type: none"> • Natural: Rape, Adultery, Incest. • Unnatural: sodomy, Lesbianism, Buccal coitus, Bestiality • Investigations: collection & dispatch of specimen (HVS, stain, hair, blood); radiology <p>Medico-legal report preparation: Impotency, fixation of paternity & maternity, report on sexual violence; rape.</p> <p>Sexual perversions: sadism, masochism, voyuerism, necrphilia, necrophagia.</p> <p>Additional:</p> <ul style="list-style-type: none"> • Psychosexual instinct; • legal provisions related. 	<p>L-7hrs</p> <p>T-3hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology

Section 6: Identification

Learning Objectives	Contents	Teaching hours
<p>The student will be able to-</p> <ul style="list-style-type: none"> • describe the objectives/purpose of identification. • enumerate the traits of identification. • identify those traits that are applicable for living. • describe how to differentiate different race. • explain the technique of sex determination. Describe the ML imp of sex. • describe the medico-legal importance of age. Mention the prerequisite & procedure of age estimation. • explain the role of forensic radiology and forensic odontology in identification. • define dactylography. Describe its type & importance. • define scar. Describe nature & importance. • define trace evidence. Describe the information that could be concluded by blood stain, hair and semen. • determine the cause and nature of death from the trace evidences. • describe the information provided by examination of bite marks. • describe procedure of identification in mass death & skeleton remain. 	<p>CORE: Identification:</p> <ul style="list-style-type: none"> • Definition, types, objectives, and method of identification. • Identification traits; Identity of living persons & dead bodies. • Race, religion, sex. • Age: medico-legal importance; estimation of age. • Tattoo, scar, stature, mole, birthmark • Stature, occupational marks. • Trace Evidence. • Forensic Dactylography. • Forensic Radiology: introduction, scope and medico-legal issues. • Forensic Odontology: introduction, scope and forensic issues. • Bite marks; Modern technologies used in identification • Identification in mass death & examination of human remains. <p>Additional:</p> <ul style="list-style-type: none"> • X-ray identification. • Superimposition. Lip print • Brain fingerprinting; • Lie detector. • Biometrics;retina scan, Iris scan. • Forensic Voice analysis • Questioned document examination • Forensic ballistic 	<p>L-6hrs T-3hrs</p>

Section 7: Forensic aspect of reproduction		
Learning Objectives	Contents	Teaching hours
<p>The student will be able to-</p> <ul style="list-style-type: none"> • explain the procedure of artificial insemination with their medico-legal importance. describe the medico-legal issues in IVF. • Diagnose pregnancy and delivery with their medico-legal importance. describe the signs & PM findings of pregnancy. describe the signs of recent delivery in living and dead. • define abortion with its type. Describe the method, complication, management, duties and medico-legal importance of criminal abortion. List the indication of therapeutic abortion. • describe medico-legal importance of viable age. 	<p>Forensic aspect reproduction:</p> <ul style="list-style-type: none"> • Artificial insemination and other artificial methods of conception with medico-legal implication (IVF, cloning). • Surrogated mother & baby. • Pregnancy: Medico-legal importance; Signs of pregnancy & duration. PM finding of pregnancy. • Delivery: signs of recent & remote delivery in living & dead. • Abortion: types, methods, complication, management and duties of medical practitioner. • Indication of therapeutic abortion. Spontaneous, Artificial (justifiable and criminal abortion). <p>Additional:</p> <ul style="list-style-type: none"> • Feticide and viability; IUF death. • MTP act; • Infertility & its medico-legal issues; Invitro Fertilization 	<p>L- 5hrs T-3hrs</p>
Section -08: Forensic Psychiatry		
<p>Students will be able to:</p> <ul style="list-style-type: none"> • define forensic psychiatry. describe the features of mental illness. • how to diagnose a case of mental disorder. • describe how to fix-up civil, criminal and social responsibilities of an insane person. • define delusion, illusion, hallucination & delirium. Describe the types of hallucination and delusion with its medico-legal importance. • Explain McNaughten's rule. Describe the civil & criminal responsibilities. • Explain the role of personality disorder and substance abuse related with crimes and its medicolegal importance. • Differentiate true from false insanity. 	<p>CORE:</p> <ul style="list-style-type: none"> • Definition of forensic psychiatry. Classification of mental disorder, lucid interval, testamentary capacity. • Important terms of forensic psychiatry. Elements of forensic psychiatry (psychosis, neurosis, delirium, delusion, illusion, hallucination, confabulation, phobia, impulse etc) • Issues of incompetency to stand trial/event. • Criminal responsibility of an insane person. • Personality disorder related with crime. • Aggressive behavior and medicolegal issues • Diminished responsibility. • Civil and Social responsibilities. • Substance abuse affecting mental state • True insanity and feigned insanity: • Rules in relation to forensic psychiatry. <p>Additional: Mental health act Advances in forensic Psychiatry. Psychosexual instinct</p>	<p>L-4hrs T-2hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section-09: Forensic Toxicology

Learning Objectives	Contents	Teaching hours
<p>Students will be able to:</p> <ul style="list-style-type: none"> • define and classify poison. • describe the factors modifying the action of poisons. • describe the duties of a doctor in case of poisoning. • outline the principles of management of acute poisoning. • outline the principles of management of chronic poisoning. • describe the mechanism, FD, features, complication, management, ML imp & postmortem finding of specific poison. • describe post mortem appearances in respective poisoning cases. • describe preventive measure of drug abuse, domestic, insecticides and food poisoning. • define drunkenness, vitriolage. 	<p style="text-align: center;">Toxicology</p> <p>CORE: General aspects of poisoning:</p> <ul style="list-style-type: none"> • Forensic Toxicology. Legal provisions related to Poisons & poisoning. • General aspect of toxicology. • Poisons. Classification of poisons. • Factors modifying the action of poison. • Antidote. • Principles of Management of acute & chronic poisoning. • Prevention of domestic poison & therapeutic poison. <p>Specific Poisoning:</p> <ul style="list-style-type: none"> • Corrosive poisons: strong acids and alkalis. • Acetaminophen (paracetamol) poisoning. • Metallic poisons: Lead, Arsenic, Copper and Mercury. • Delirients: Dhatura, Cannabis. • Somniferous agents: Opium and its derivatives; Hypnotics- Barbiturate. • Inebriates: Alcohol, methyl alcohol. • Petroleum product: Kerosene oil. • Gaseous poisons: Carbon monoxide, Chlorine, CO₂, Cooking gas (methane). • Insecticides: Organo-phosphorus comp (OPC) and chloro-compound. • Snake Bite. • Drug dependence and drug abuse. Doping. • Food poisoning. • Potka fish(Puffer fish) <p>Additional:</p> <ul style="list-style-type: none"> • Spinal poison; Cardiac poison; cocaine; • Organic irritant: ricinus communis; ergot; arbus precatorius; calatropis; cathraides; scorpion. • Clinical toxicology; Environmental toxicology; Occupational toxicology; Analytic toxicology. 	<p style="text-align: center;">L- 20hrs T- 05hrs</p>

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section-10: PRACTICAL (40hrs)

Learning Objectives	Contents	Teaching hours
<p>Practicals:</p> <p>The students will be able to:</p> <ul style="list-style-type: none"> • perform examination of medico-legal cases individually. • perform medico-legal autopsies under supervision. • attend the court as a witness and give deposition as an expert witness. • prepare/write certificates on injury cases, births, deaths, sickness & fitness, discharge etc. • prepare ten reports on medico-legal autopsies. • prepare dying declaration. • recognize medico-legal cases individually. 	<p>A. Demonstration: (18hrs)</p> <ul style="list-style-type: none"> • Demonstration & observation of ten medico-legal autopsies. • Observation/examination of intoxicated persons in the ward (Indoor). • Flip chart • Weapons: Blunt weapons; Sharp Cutting weapons; sharp pointed • Dangerous weapon: firearms • Forensic photograph: <ul style="list-style-type: none"> ○ Identity: Tattoo; fingerprint; Barr body & Davidsons body ○ Thanatology: Marbling, degloving, demonstration rigor mortis ○ Asphyxial death: Ligature marks; FB in trachea(Choking) Hanging; Strangulation; Partial hanging; smothering; sexual asphyxia; traumatic asphyxia; diatoms; drowning. ○ Trauma: Hesitation cut; fabricated injury; incised wound; cut throat wound with hesitation mark; defence wound; shotgun injury; pattern abrasion; graze abrasion; contact rifle entry wound; chop wound; pugilistic attitude; soot particle in the trachea; Lacerated wound; • Toxicology specimen(poison) <ul style="list-style-type: none"> ▪ Corrosives:Hcl,H₂SO₄, HNO₃, carbolic acid;Oxalic acid; Salicylic acid; corrosive alkali. ▪ Inorganic: lead; copper; Arsenic; Mercury; Phosphorus. ▪ Organic: chili seeds; Snake. ▪ Systemic: <ul style="list-style-type: none"> ▪ CNS: inebriants(Alcohol; methy alcohol); delerients(Dhatura, Cannabis Indica); Poppy(Opium); Nux vomica ▪ Insecticides: OPC; Chloro-compund ▪ Domestic: kerosene; naphthalene; harpic; savlon; Dettol. 	<p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p> <p align="center">2hrs</p>

<p>The students will be able to:</p> <ul style="list-style-type: none"> • explain the procedures of examination of victim of sexual offences,physical assault. • explain and describe the procedure of postmortem examination. • explain the procedures of determination of age. • describe the suspected poisoning cases and can describe the emergency management of an intoxicated patient in the ward. • prepare injury report,postmortem report; age estimation report,mental state report, death certificate, death note for patients record,Sickness and fitness certificate, discharge certificate, 	<p>B. Exercise: (22yrs)</p> <ul style="list-style-type: none"> • Preparation of certificates on following Medico-legal situations: <ul style="list-style-type: none"> ○ Prepare 5-10 Injury report ○ Prepare 10 Postmortem reports ○ Prepare death certificate according to ICD-10 with recording of death note. ○ Prepare medical(fitness & sickness) certificate; discharge certificate; Birth certificate. ○ Prepare report on Insanity. ○ Prepare age estimation report. ○ Prepare report of sexual assault. • Recoding Dying declaration. • Examine for estimation of the age of a person. • Examine victim of physical assault. • Examine victim of sexual assault. • Examine a drunkenness case • Management of poisoning case • Age estimation from bones by X-rays. • Assignment. 	<p>10hrs</p> <p>2hrs 2hrs 2hrs 2hrs</p> <p>2hrs 2hrs</p>
	<p>C. Observation</p>	
	<p>D. Experiment:</p> <p>E. Role play: Drunkenness Infamous conduct</p> <p>F. Presentation</p> <p>G. Problem solving:</p>	

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section-11: Observation of ten Medico-legal Autopsies (10days)

Learning Objectives	Contents	Teaching hours
<p>The student will be able to:</p> <ul style="list-style-type: none"> • note the particulars of deceased, case no, Police station reference case/GDE no with date; name & number of the police constable, date of time of dispatch and arrival of dead body. • scrutinize the documentary prerequisites and other prerequisites for medico-legal autopsy • observe and note the changes of death on the dead body. • observe and note the marks in relation to identification. • observe and note the external injuries. • observe and note the external examination. • observe and note the incisions for opening body cavities. • observe and note the findings of internal examination & viscera. • observe and note the procedure of viscera preserved, preservative used, packed & labeled. 	<ul style="list-style-type: none"> • College authority will contact and fix the schedule with suitable time & date to attend. • Transport will be provided by the college authority. 	8 days

Learning Objectives and Course Contents in Forensic Medicine & Toxicology
Section-12: Day visit-06

Learning Objectives	Contents	Teaching hours	
<p>The student will be able to:</p> <ul style="list-style-type: none"> • note the name of the court students attend & other type of courts present here; date • observe the court environment and court etiquette. • observe role of public prosecutor office. • observe the role of judge, public prosecutor & defense lawyer • observe the court procedure and gain a practical experience. • prepare an assignment on your experience of court visit. 	Visit to court.	<ul style="list-style-type: none"> • College authority will contact and fix suitable time & date to attend. • Transport will be provided by the institute. 	One day

<p>The Student will be able to:</p> <ul style="list-style-type: none"> • note the name of police station and the administrative structure • observe the procedure of first information report (FIR); Inquest report; chalan form and general diary entry (GDE). • observe the activities perform in police station. • prepare experience report. • prepare an assaignment on the activities perform in police station. 	<p>Visit to police station</p>	<ul style="list-style-type: none"> • College authority will contact and fix suitable time & date to attend. • Transport will be provided by the institute. 	<p>One day</p>
<p>The Student will be able to:</p> <ul style="list-style-type: none"> • note the name of hospital and the administrative structure. • observe the victim of sexual assault; victim of domestic violence; victim of battered baby syndrome. • observe the activities of OCC. • prepare experience assaignment. • prepare report on the case you observed here with findings and opinion. 	<p>One stop Crisis Center (OCC)</p>	<ul style="list-style-type: none"> • College authority will contact and fix suitable time & date to attend. • Transport will be provided by the institute. 	<p>one day</p>
<p>The Student will be able to:</p> <ul style="list-style-type: none"> • note the name of DNA lab or forensic lab. • observe the activities perform by forensic lab. • observe the problems in collection, packing & dispatch of samples for forensic lab. • prepare report on your observation. 	<p>DNA lab. Forensic lab.</p>	<ul style="list-style-type: none"> • College authority will contact and fix suitable time & date to attend. • Transport will be provided by the institute. 	<p>One day</p>

Existing summative assessment of Forensic Medicine & Toxicology

Assessment systems and mark distribution.

Components	Marks	Total Marks
Formative assessment	10	10
WRITTEN EXAMINATION		
MCQ (50% Single Best Answer+50% Multiple True False)	20	90
SEQ (Structured Essay Question)-20	20	
SAQ (Short Answer question)	50	
<i>Practical Examination</i>		100
ORAL EXAMINATION (Structured Oral Examination).		100
Grand Total		300

- There will be separate Answer Script for MCQ.
- Pass marks 60 % in each of theoretical, oral and practical.

Example of a “Format” for Integrated Teaching

Teacher of Anaesthesiology	Teacher of Pharmacology	Teacher of Medicine	<i>Teacher of Forensic Medicine</i>
Hazards of anaesthesia and causes of death, injury and disability.	The Pharmacological aspects of opium and opioids.	Clinical aspects of acute opium and opioids poisoning.	<ul style="list-style-type: none"> <input type="checkbox"/> When and how far anaesthetists are responsible for such death? <input type="checkbox"/> Legal responsibilities of an anaesthetist. <input type="checkbox"/> Forensic aspects of acute opium and opioid poisoning. <input type="checkbox"/> Determination of causes of death due to above poison. <input type="checkbox"/> Methods for determination and confirmation of the poison.

TIME SCHEDULE

Sl no	Section	Topic	Lecture	Tutorial
01	Section -01	Introduction to Forensic Medicine and Recent advances in Forensic Medicine	09hrs	04hrs
02	Section -02	Legal structure and court procedure	4 hrs	02hrs
03	Section -03	Medical Jurisprudence and Medical ethics	10hrs	04hrs
	Section -04:	Forensic Pathology (L-24hrs; T-13hrs)		
04		Medico-legal Autopsy	05hrs	04hrs
05		Death: Mode, manner; Changes after death; Artifact Sudden death; Custodial death. Anesthetic & surgical death	06hrs	03hrs
06		Infanticide	02hrs	01hrs
07		Violent asphyxia	05hrs	03hrs
08		Wound: Transportation wound; Firearm & explosives; Electrocutation & lightning	06hrs	02hrs
	Section-05:	Clinical Forensic Medicine (L- 53hrs; T- 22hrs)		
09		Basics of Death	02hrs	02hrs
10		Wound: Mechanical wound; Regional wound; Thermal wound; domestic violence; Torture & Neglect.	09hrs	04hrs
11		Forensic aspect of sex	07hrs	03hr
12	Section -06	Identification	06hrs	03hrs
13	Section -07	Forensic aspect of Reproduction	05hrs	03hrs
14	Section -08	Forensic Psychiatry	04hrs	02hrs
15	Section -09	Forensic Toxicology	20hrs	05hrs
		Total	100hrs	45 hrs
16	Section -10	Practicals (demonstration; exercise; observation; role play; problem solving)	-	40hrs
				85hrs
17	Section -11	Autopsy observation at Mortuary	12 days	
18	Section -12	Court Visit; Thana visit; OCC and forensic lab visit		
		Grand Total :100+45+40=185 hrs + 12 days		

Item card

		Department of Forensic Medicine & Toxicology.			 Medical college			
		Name.....				Roll..... Batch..... Session.....			
		First Term				Second Term			
		Item no	Date	Mark obtained			Item no	Date	Mark obtained
Introduction & Recent advances	01	<ul style="list-style-type: none"> • Introduction to Forensic Medicine; Branches; history & Scope • Recent advance in Forensic medicine: DSD; age of child. • Consent; Euthanasia; • Medical records; 			Forensic aspect of Reproduction	11	<ul style="list-style-type: none"> • Artificial insemination; surrogate mother • Pregnancy: MI imp, Sign, PM finding • Delivery: MI imp, sign of recent/remote delivery in living & dead; PM finding • Abortion: Therapeutic, Justifiable & Criminal abortion. 		
	02	<ul style="list-style-type: none"> • Mass disaster, DVI; Sports medicine. • Forensic science & Trace evidence: Blood stain Blood group, Hair, Semen; • DNA Profiling 			Forensic Psychiatry	12	<ul style="list-style-type: none"> • Forensic Psychiatry; Types of mental disorder; • Elements/terms of psychiatry (phobia, delirium, delusion, illusion, hallucination, psychosis, neurosis, impulse etc) • Personality disorder; aggressive behavior; true insanity • Civil, criminal & social responsibilities; Important rules 		
Legal aspect	03	Law & Legal aspect: <ul style="list-style-type: none"> • Legal structure: courts, power & function; penal code; sentence. • Legal (court) procedure: Evidence, witness; ideal witness; summon. • Certificate & medico-legal reports 			Medical Jurisprudence	13	<ul style="list-style-type: none"> • Principles of medical ethics; Ideal etiquette • BMDC; right & privilege of doctor/patient; • Duties of doctor /patient; Professional secrecy • WMA declaration (Geneva declaration, others) 		
Clinical forensic medicine & Forensic Pathology	04	<ul style="list-style-type: none"> • Basics of Death: definition, type, mode, manner, cause, diagnosis, declaration, somatic death, apparent death, brain death • Changes of death: immediate, early, Late change • Post mortem artifact 			Medical Jurisprudence	14	<ul style="list-style-type: none"> • Doctor patient relationship (def, element, skills, model) • Ethical malpractice (infamous conduct); • Negligence (Malpraxis): def, element, prevention, defence • Doctrine res Ipsa loquito, contributory, therapeutic misadventure, corporate negligence, ethical dilemma. 		
	05	<ul style="list-style-type: none"> • Sudden death. • Custodial death; Anaesthetic and operative deaths. • Torture and neglect (BBS, Starvation) 			Forensic Toxicology	15	<ul style="list-style-type: none"> • General aspect of poisoning: Domestic & therapeutic poison. • Poison: def, classification, factor, effect, diagnosis • Principles of management/objectives. 		
	06	<ul style="list-style-type: none"> • Autopsy: def; type; prerequisite, procedure; laboratory procedure, report writing; Special autopsy & autopsy of special situation • Modern mortuary; Exhumation; Inquest; MI system • Infanticide: Live born, dead born, still born 			Forensic Toxicology	16	<ul style="list-style-type: none"> • Corrosive poisons: strong acids and alkalis. • Acetaminophen (paracetamol) • Metallic: Arsenic, Copper, Mercury • Insecticide (OPC); kerosene oil 		
	07	<ul style="list-style-type: none"> • Define injury, hurt, assault, battery, homicide • Medicolegal aspect: grievous hurt, defence wound, cause of death. • Mechanical wounds: Abrasion; Bruise; laceration; Incised, Stab wound • Regional injury; Translocation; Thermal and electrical wound 			Forensic Toxicology	17	<ul style="list-style-type: none"> • Delerient: Dhatura, Cannabis; cocaine • Narcotic & hypnotic: Opium; Barbiturate • Inebriant: Alcohol, methyl alcohol • Substance abuse; solvent abuse 		
	08	<ul style="list-style-type: none"> • Hanging: Definition, type, mechanism, cause of death, postmortem finding; ML imp, difference from PM suspension. • Strangulation: def, type, cause of death, PM finding, ML imp., • Drowning: def, type, pathophysiology; PM finding; cause of death; MI imp, diatom; lab investigation • Suffocation: smothering; choking; gagging; 			Forensic Toxicology	18	<ul style="list-style-type: none"> • Carbon monoxide poisoning; war gas. • Snake Bite. • Food poisoning. • Potka fish (Puffer fish) • Yellow oleander 		
	09	Forensic aspect of sex, sexual offence <ul style="list-style-type: none"> • Impotency, sterility; Marriage, divorce; legitimacy; paternity, maternity • Hymen, Virginity, defloration • Sexual offence: rape, adultery, incest • Unnatural sexual offence: sodomy, bestiality, lesbianism • Sexual perversion, Sexual instinct 			Forensic Toxicology	19	<ul style="list-style-type: none"> • Clinical toxicology; Imp & forensic aspect • Environmental toxicology; • Occupational toxicology; • Analytic toxicology 		
	10	<ul style="list-style-type: none"> • Identification: trait, objectives, MI imp. • Race; Sex; age • Dactylography, Tattoo, scar • Modern technique, comparison data; superimposition 			Forensic Toxicology	20	<ul style="list-style-type: none"> • Overall conception regarding forensic medicine • Attitude, Interpersonal skill, Extra academic skill • Soft skill, management skill, leadership skill 		

Academic Schedule for Forensic Medicine & Toxicology

3 rd Phase											
First Term					Second Term						
01 (July)	02 (Aug)	03 (Sept)	04 (Oct)	05 (Nov)	06 (Dec)	07 (Jan)	08 (Feb)	09 (Mar)	10 April	11 May	12 June
<ul style="list-style-type: none"> • Forensic Medicine & forensic science <ul style="list-style-type: none"> ○ Introduction to Forensic Medicine ○ Recent advance in Forensic medicine: DSD; consent; Euthanasia; medical records; Sports medicine ○ Mass disaster& DVI. ○ Forensic science: blood stain & group, Hair, Semen; DNA Profiling • Legal aspect: <ul style="list-style-type: none"> ○ Legal structure ○ Legal (court) procedure ○ Certificate & medico-legal reports • Medical Jurisprudence <ul style="list-style-type: none"> ○ Medical ethics: Health Ethics; Rights & Privileges of Doctors & patient, Duties of doctor. Code & law of medical ethics; Professional secrecy ○ BMD&C ○ WMA declaration& applied ethics • Forensic Pathology <ul style="list-style-type: none"> ○ Autopsy & Infanticide; Changes after death and Post-mortem artefacts ○ Asphyxial death ○ Transpotation; thermal and electrical wound • Clinical forensic medicine <ul style="list-style-type: none"> Death: Basics, brain death Mechanical wounds & Medicolegal aspect. Forensic aspect of sex, sexual offence Identification 				9 hrs	1 st Internal assessment	<ul style="list-style-type: none"> • Forensic Psychiatry • Forensic aspect of reproduction: <ul style="list-style-type: none"> ○ Artificial insemination and disputed paternity & maternity ○ Pregnancy ○ Delivery ○ Abortion • Forensic Toxicology <ul style="list-style-type: none"> ○ General aspect of poisoning ○ Corrosives ○ Metallic poison ○ Deliriant poison, inebriants ○ Management of acute poisoning. ○ Gaseous poisons, ○ Insecticides, ○ Snake bite ○ Substance abuse ○ PM finding; preservation and despatch of viscera ○ Analytic, occupational, clinical toxicology 		4hrs	2 nd Internal assessment	3 rd Prof exam	
				4hrs				5hrs			
				10hrs				20hrs			
				24hrs							
				18hrs							
				6hrs							
Lecture-71hrs; Tutorial-35hrs: Practical-27hrs +12 days (8 days for observation of autopsy at mortuary + 4 days court, thana, OCC, DNA& forensic lab visit)							Lecture-29hrs Tutorial-10hrs Practical-13hrs		Total:195hrs + 12 days		

01. Postmortem report form: Students has to prepare 10 PM report

বাংলাদেশ ফরম নং- ৫৩৭২

স্টেশন.....

ময়না তদন্তের রিপোর্ট

২০.....সনের.....মাসের.....তারিখ

(পি,আর,বি ফরম নং ৫৫, ২৮৪ নিয়ম দ্রষ্টব্য)

	নাম, পিতা, বয়স ও পোত্র	কোথা হইতে আনা হইয়াছে - গ্রাম ও থানা।	যে কনট্র্যাবল কর্তৃক আনা হইয়াছে তাহার নাম এবং সংশ্লিষ্ট আসা আস্থায় - বহনকারকের নামসমূহ।	প্রেরণের দিন ও ক্ষণ।	লাশ কাটা মর্গে আনয়নের দিন ও ক্ষণ	পরীক্ষার দিন ও ক্ষণ	পুলিশ কর্তৃক প্রদত্ত তথ্য	যে ব্যক্তি মেডিক্যাল অফিসারের সামনে সনাক্ত করিয়াছেন।	
	বিশেষ দ্রষ্টব্যঃ- যাবতীয় অঙ্গ-প্রত্যঙ্গের অবস্থা লক্ষ্য করুন এবং কোন রোগ অথবা যথের চিহ্ন না পাইলে স্বাস্থ্যবান লিখুন।								
১ - মস্তিষ্ক	১ - ব্যক্তির অবস্থা - বলবান, শীর্ণ, গলিত ইত্যাদি		২ - যথম - অবস্থান, আকার ও ধরণ		৩ - আঘাত - অবস্থান, আকার ও ধরণ		৪ - গলা ব্যবচ্ছেদের সময় প্রাপ্ত পটীর চিহ্ন, ইত্যাদি		
২ - মাথার স্থিতি এবং মেরুদণ্ডের	১ - মাথার বহিরাবরণ - মাথার স্থিতি এবং মেরুদণ্ডের অস্থি খন্ডসমূহ			২ - কিল্টী		৩ - মস্তিষ্ক এবং মেরুদণ্ড রক্ষা (যদি কোন রোগ অথবা যথের নিদর্শন না থাকে তাহা হইলে মেরুদণ্ডের নল পরীক্ষার দরকার নাই)।			
৩ - হৃৎস্পন্দ	১ - প্রকার - পাজর এবং কোমলাস্থিসমূহ।	২ - ফুসফুস আবরণী	৩ - বাগযন্ত্র ও শ্বাসনালী	৪ - ডান ফুসফুস	৫ - বাম ফুসফুস	৬ - হৃৎকরা কিল্টী	৭ - হৃৎপিণ্ড	৮ - রক্ত নালী	
৪ - উপর	১ - প্রকারসমূহ	২ - উদরের উপরের কিল্টী	৩ - মুখ, শ্বাসনালী এবং অনুনালী	৪ - পাকস্থলী এবং উহার অভ্যন্তরস্থ বস্তুসমূহ।	৫ - ক্ষুদ্রান্ত্র ও উহার অভ্যন্তরস্থ বস্তুসমূহ।	৬ - বৃহদন্ত্র ও উহার অভ্যন্তরস্থ বস্তুসমূহ।			
	৭ - যকৃত	৮ - প্রীহা	৯ - মূত্রাশয়সমূহ	১০ - মূত্রাস্থলী	১১ - প্রজনন অঙ্গসমূহ, বাহিরের এবং ভিতরের।				
মাংসপেশী, হাড় এবং জোড়সমূহ।	১ - যথম		২ - রোগ অথবা বিবর্ণতা		৩ - অস্থিতঙ্গ		৪ - স্থানচ্যুতি		
রোগ অথবা যথের আঁক ও বিবর্ত বিবরণ।									
মৃত্যুর কারণ সম্পর্কে মেডিক্যাল অফিসারের মতামত				সিভিল সার্জনের মন্তব্য					
বিঃ দ্রঃ - যথের ক্ষেত্রে, যথমে হস্তাঙ্কন, তদন্তহস্তাঙ্কন বা অন্য কিছুই আলামত আছে কিনা তাহা লিখুন।									
..... সহকারী সার্জন				১৯..... সনেরমাসেরতারিখ সিভিল সার্জন					

02. Students has to write 6 death certificates according to this form(ICD-10)

Directorate General of Health Services
International Form of Medical Certificate of Cause of Death

Hospital Name: _____

Hospital Code No: _____ Admission Reg. No: _____

Name: _____

Father's Name: _____

Mother's Name: _____

Address: House/Road (Name/No.) _____ Village/Area/Town _____ Union/Ward _____
 Post Office _____ Post Code _____ Upazila/Thana _____ District _____

Sex: Female Male Third gender Religion: Islam Hindu Buddha Christian Other _____

Occupation: Service Business Govt. Service Student Housewife Retired Other _____

Date of Birth: _____ Age if DoB is not available: _____

Date of admission: _____ Time of Admission: _____

Date of Death: _____ Time of Death: _____

NID of Deceased/Spouse/Parents NID (< 18 years) _____ Deceased Spouse Parents

Family Cell Phone number (if available) _____

Frame A: Medical data: Part 1 and 2

<p>1 Report disease or condition directly leading to death on line a</p> <p>Report chain of events in due order (if applicable)</p> <p>State the underlying cause on the lowest used line</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Cause of death</th> <th style="width: 30%;">Time interval from onset to death</th> </tr> </thead> <tbody> <tr> <td>a _____</td> <td></td> </tr> <tr> <td>b _____</td> <td></td> </tr> <tr> <td>c _____</td> <td></td> </tr> <tr> <td>d _____</td> <td></td> </tr> </tbody> </table>	Cause of death	Time interval from onset to death	a _____		b _____		c _____		d _____	
Cause of death	Time interval from onset to death											
a _____												
b _____												
c _____												
d _____												
<p>2 Other significant conditions contributing to death (time intervals can be included in brackets after the condition) _____</p>												

Frame B: Other medical data

Was surgery performed within the last 4 weeks? Yes No Unknown. If yes please specify date of surgery: _____

If yes please specify reason for surgery (disease or condition) _____

Was an autopsy requested? Yes No Unknown. If yes were the findings used in the certification? Yes No Unknown.

Manner of death:

Disease Assault Could not be determined Accident Legal intervention Pending investigation Intentional self harm

War Unknown. If external cause or poisoning: _____ Date of injury: _____

Please describe how external cause occurred (if poisoning please specify poisoning agent) _____

Place of Occurrence of the external cause:

At home Residential School, other institution, public administrative area Sports and athletics area Street and highway Trade and service area

Industrial and construction area Farm Other place (please specify): _____ Unknown.

Fetal or infant Death

Multiple pregnancy Yes No Unknown; Stillborn? Yes No Unknown

If death within 24h specify number of hours survived: _____ Birth weight (in grams): _____

Number of completed weeks of pregnancy: _____ Age of mother (years): _____

If death was perinatal, please state conditions of mother that affected the fetus and newborn: _____

For women of reproductive age

Was the deceased pregnant within past year? Yes No Unknown

If yes, was she pregnant?

When she died Within the 42 days preceding her death Within 43 days up to 1 year preceding her death Exact pregnancy timing unknown

Did the pregnancy contribute to the death Yes No Unknown

Date: _____ Designated Signature: _____

• **Hours of Teaching:**

- **Large group**
 - * Lecture - 100 hours.
 - **Small group**
 - * Practical - 40 hours.
 - * Tutorial - 45 hours.
 - * Integrated teaching/ Assignment - 10 hours.
- Total = 195 hours.**

Summary of the Forensic Medicine Academic Programme

	1st Term	2nd Term	Total
Lecture/Revision	71 hrs	29 hrs	100 hrs
Practical/ Demonstration/ exercise	27 hrs	13 hrs	40 hrs
Tutorial	35 hrs	10 hrs	45 hrs
Integrated Teaching/ Assignment	5 hrs	5 hrs	10 hrs
8 days for attending mortuary for observation of medico-legal autopsy. 4 days for court visit; PS (Thana), OCC, DNA lab and Forensic lab visit			12days
Total	-----	-----	195 hrs + 12days