

(Y3/S1)

DIS – 2 ETHICS AND TRAUMATOLOGY 1

Topic	Objectives	Teaching method/s	Time
Introduction to Forensic Medicine-branches, scope and the need	<ul style="list-style-type: none">➤ ‘Define” forensic medicine➤ List the branches of forensic medicine➤ Describe the scope of each branch of forensic medicine➤ State persons who perform medico-legal functions	Lecture	1 hr
Investigation of Crimes	<ul style="list-style-type: none">➤ Define a crime➤ State the persons involved in solving a crime➤ Explain the role of each person in solving a crime	Video presentation	1 hr
		Lecture	1 hr
Roles and responsibilities of a doctor in maintaining relationships	<ul style="list-style-type: none">➤ Explain the term doctor patient relationship➤ Outline qualities of a doctor expected in a Dr/Pt relationship.➤ Describe when such a relationship starts and ends➤ Doctor–Doctor relationship : roles & responsibilities➤ Dr Pt relationships – roles and responsibilities.➤ Doctor – Society relationship: roles & responsibilities	Mini Lecture/ Brain storming	1 hr
Code of Conduct for doctors	<ul style="list-style-type: none">➤ Discuss the importance of a code of conduct for doctors.	Discussion	1 hr
Death and death related issues	<ul style="list-style-type: none">➤ What is death?➤ Describe the different types of death(specify brain death)➤ List the conditions that are necessary to diagnose clinic-somatic death➤ List conditions which simulate death	Lecture	2hrs
Disposal of a dead body And Inquest	<ul style="list-style-type: none">➤ State why a death certificate is important➤ List the people who are eligible to issue a death certificate➤ List the circumstances under which a medical officer should issue a certificate of a medical cause of death.➤ State the law related to disposing a dead body➤ Describe how a dead body could be disposed legally if the death occurs at home or in a hospital➤ Define the term “ inquest “➤ List the roles of each person involved in an inquest➤ List the circumstances under which an inquest should be requested➤ Discuss the procedure in requesting and the possible outcomes of an inquest	Lecture	2hrs

Changes after death and Estimation of Time since death	<ul style="list-style-type: none"> ➤ List the different types of macroscopic postmortem changes ➤ Classify these changes according to the time of onset ➤ Describe the appearance of each of these changes ➤ Discuss the medico legal importance of each postmortem change ➤ List the different methods that maybe used in the estimation of TSD ➤ Discuss the advantages and disadvantages of each method 	Lecture	4 hrs
Post mortem artifacts	<ul style="list-style-type: none"> ➤ List the different types of artifacts that may be seen macroscopically on a dead body postmortem ➤ Describe the medico legal importance of identifying these artifacts 	Lecture	1 hr
Health care rights	<ul style="list-style-type: none"> ➤ Define the term human rights ➤ Identify fundamental elements in human rights ➤ List main human Rights documents and identify their key concepts ➤ Outline health rights of patients ➤ Outline rights of doctors ➤ State remedies for Human Rights violations ➤ Discuss the interaction between rights, obligations of a doctor VS Patients rights. 	Lecture	1 hr
Basic injuries	<ul style="list-style-type: none"> ➤ Define the term 'Injury' for medical and legal purposes. ➤ List the types of trauma and their definitions ➤ Describe different types of basic injuries ➤ Discuss the agents cause and mechanism of injuries ➤ Discuss the medico legal significance of each of the above injury 	Lecture	2 hrs
		Preparation for Seminar	1 hr
Burns / Injuries by physical and chemical agents	<ul style="list-style-type: none"> ➤ List the different types of burns Dry burns, moist burns, chemical burns, electrocution, lightning, radiation, hypothermia, hyperthermia ➤ Describe different features, sequelae and complication of each and their medico legal significance ➤ Medico legal investigation of a case of burns ➤ Describe the different types of burns. ➤ Discuss the medicolegal interpretation of these injuries ➤ Describe the causes, clinical features and autopsy features of hypo and hyperthermia. 	Seminar	2 hrs
Pathology and Pathophysiology of trauma	<ul style="list-style-type: none"> ➤ Discuss the sequel and complications of mechanical trauma 	Lecture	3hrs

Time of injury	<ul style="list-style-type: none"> ➤ Describe different methods available to time injuries ➤ Describe macroscopic, microscopic, histo-chemical and radiological methods to time injuries - 1 hr (* Students should revise wound healing and bone healing prior to the lecture) ➤ List the methods available to time injuries ➤ Describe how the injuries can be typed by macroscopic appearance. 	Lecture	1hr
Patterns of injuries	<ul style="list-style-type: none"> ➤ Discuss the injury patterns in <ul style="list-style-type: none"> - self-inflicted injuries suicidal injuries, fabricated, caused by friendly hand - defense injuries - falls <p>Injuries caused by animals (animal attacks and stings)Self inflicted / suicidal injuries / fabricated / caused by a friendly hand</p>	Lecture	1hr
Classification of injuries for legal purposes	<ul style="list-style-type: none"> ➤ Discuss how each injury maybe categorized under the following- non-grievous hurt, grievous hurt, endangering life, fatal in ordinary course of nature, necessarily fatal 	Lecture	2hrs
Regional Injuries (Thoracic Injuries)	<ul style="list-style-type: none"> ➤ Describe the injuries to the thoracic cage and organs ➤ Discuss the medico legal aspects 	Lecture	1hr
Regional Injuries (Abdominal Injuries)	<ul style="list-style-type: none"> ➤ Describe the injuries to the abdominal wall and organs ➤ Discuss the medico legal aspects 	Lecture	1hr
Regional Injuries (Head Injuries, Neck , Face, teeth and spinal cord)	<ul style="list-style-type: none"> ➤ Describe the different types of injuries that can occur in the soft tissues of head and face, skull, ICH, Cerebral injuries, Spinal cord. ➤ Describe the macroscopic appearance ➤ Discuss the medico legal aspects ➤ State situations in which spinal dissection is required in forensic practice and outline the dissection methods. ➤ Describe the sequel of raised IC pressure ➤ Describe injuries that would occur in teeth 	Lecture	4 hrs
Identification for medico legal purposes	<ul style="list-style-type: none"> ➤ Explain the value of Identification for Medico legal Purpose ➤ Explain circumstances where issue of identification arise ➤ List and explain the basis for the method/methods for identification in each of the circumstance above ➤ Explain the basis of special techniques used in "Specific Identification" <ul style="list-style-type: none"> - DNA applications in forensic medicine 	Lecture	3 hrs
History Taking and Examination of a	<ul style="list-style-type: none"> ➤ Discuss how a patient may be referred to the medical officer for medicolegal examination 	Lecture	2hrs

medico-legal cases /Post mortems(clinical cases)	<ul style="list-style-type: none"> ➤ Describe the steps in taking a history and examining a clinical medicolegal case ➤ List the documents that can be used for the purpose of documenting injuries ➤ Describe the procedure in documenting injuries ➤ Describe the procedure sending reports to court in response to police message, summons, notices and warrants 		
Introduction to Autopsy and techniques	<ul style="list-style-type: none"> ➤ Differentiate pathological autopsy from a judicial autopsy. ➤ Describe the procedure in requesting pathological postmortem ➤ State how a case may be referred to the medical officer for judicial postmortem examination. ➤ Describe the procedure prior to commencement of the judicial autopsy ➤ Describe the technique of a routine autopsy ➤ List the documents that can be used for the purpose of recording information ➤ Describe the procedure in recording information and reporting to courts ➤ Special dissection techniques 	Video presentation	1 hr
		Lecture	1 hr
Negative autopsy	<ul style="list-style-type: none"> ➤ Describe what is meant by a negative autopsy ➤ Discuss the conditions in which an autopsy maybe negative ➤ What are the lab investigations you would carry out to determine the COD? 		
Introduction to COD, mode of death and circumstances of Death / Law of murder and Homicide	<ul style="list-style-type: none"> ➤ Describe what is meant by <ul style="list-style-type: none"> - cause of death - mode of death - manner of death/ circumstance ➤ Correct documentation of COD, Medical certification of death ➤ Differentiate Murder from a Homicide ➤ Explain exceptions 	Lecture	2hrs
Exhumation and excavation	<ul style="list-style-type: none"> ➤ Differentiate between exhumation and excavation ➤ List the people involved in and the procedure in conducting an exhumation ➤ List the circumstances under which an exhumation/excavation can be ordered 	Lecture	1 hr
Court procedure and expert testimony in courts	<ul style="list-style-type: none"> ➤ State the types of evidence admissible in courts ➤ Define the term “ Expert Witness” ➤ Differentiate an expert witness from an ordinary witness ➤ Explain how a medical officer may be examined in a court of law ➤ Discuss the statement that a “ Medical Officers Opinion in the capacity of an expert witness is not conclusive in courts” 	Lecture	1hr
		Discussion	1 hr

Testimonial capacity, testamentary capacity, fitness to plead and dying declaration	<ul style="list-style-type: none"> ➤ Explain following terms <ul style="list-style-type: none"> - Testamentary capacity - Testimonial Capacity - Fitness to plead - Explain how you would estimate testamentary capacity ➤ Define “ dying declaration “and describe the procedure in recording a dying declaration <ul style="list-style-type: none"> - Discuss the value of a dying declaration - Define “ dying deposition 	Lecture	1 hr
Scene of crime	<ul style="list-style-type: none"> ➤ Describe the role of the medical officer at a scene of crime 	Lecture	1 h
The role of a medicolegal officer at a scene of mass disaster	<ul style="list-style-type: none"> ➤ Discuss the role of a medicolegal officer at a scene of mass disaster 	Lecture	1hr
Trace evidence	<ul style="list-style-type: none"> ➤ Describe what is meant by trace evidence ➤ Discuss the importance of such in medicolegal practice ➤ Identify principles of collection and transport of trace material 	Lecture	1 hr
Research Ethics (FM)	<ul style="list-style-type: none"> ➤ State laws safe guarding rights of research participants. ➤ Explain the term “informed consent” with reference to bio medical research ➤ Identify ethical issues in Bio Medical research ➤ Explain the role of an ethical review committee ➤ Discuss how medical research can be conducted ethically 	Lecture	1 hr
Medical Malpractice and illegal medical practice	<ul style="list-style-type: none"> ➤ Explain terms Mal practice and illegal medical practice ➤ Discuss the impact of such practices ➤ Compare and contrast negligence with mal Practice ➤ State the guidelines to issue medical certificates (including medical certificates to courts.) 	Lecture	1 hr
Sri Lanka medical council	<ul style="list-style-type: none"> ➤ State the composition of the medical council (SLMC) ➤ State how members are appointed ➤ Explain the role and scope of SLMC ➤ Explain how discipline of its members is maintained ➤ Identify privileges of a medical practitioner 	Lecture	1 hr
Medical Ethics - Introduction to basic principles (FM)	<ul style="list-style-type: none"> ➤ State four principles of ethics ➤ Explain the above principles ➤ Explain how a doctor may use above in his practice 	Lecture /Assignment	1 hr
Medical Ethics -	<ul style="list-style-type: none"> ➤ List and explain ethical duties of a doctor to a patient, society and to each other 	Lecture	2 hrs

Introduction to ethical concepts (FM)	<p>(medical, paramedical and supportive staff) in the profession.</p> <ul style="list-style-type: none"> ➤ Explain following concepts: <ul style="list-style-type: none"> - Best possible care - Standard of care - Confidentiality - Consent 		
Legal system of Sri-Lanka with special reference to practice of medicine (FM)	<ul style="list-style-type: none"> ➤ State the court system in Sri Lanka in hierarchical order ➤ State the jurisdiction of each court ➤ Identify courts / Institutes to which a doctor may be summoned as an expert ➤ Differentiate a criminal offence from a civil Offence ➤ List acts and ordinances those are directly relevant to practice of medicine. ➤ To be aware of laws related to practice of medicine (Handout to be given). ➤ How to access these laws. 	Lecture	2 hrs
Medical Negligence	<ul style="list-style-type: none"> ➤ Define medical negligence ➤ Identify and explain the elements to be proved in negligence ➤ Differentiate civil and criminal negligence ➤ State and discuss defenses against negligence ➤ Explain how negligence can be minimized. 	Lecture	1 hr
Debates on controversial Issues (abortion, euthanasia, death penalty, cloning, HIV/AIDS, Organ transplantation) E.g. Ought abortion be legalized? <ul style="list-style-type: none"> ➤ Euthanasia should be allowed. ➤ Death Penalty should be abolished. / student seminar(PM examination) 	<p>Facilitate team work. Develop arguments To encourage student centered learning</p>	Debate guided by staff	2hrs

Y4/S1

DIS – 4 TRAUMATOLOGY 2, TOXICOLOGY AND APPLIED MEDICAL ETHICS

34	Asphyxia deaths-smothering, suffocation, choking, gagging, strangulation, hanging, traumatic, postural and sexual asphyxia	<ul style="list-style-type: none"> ➤ Define asphyxia ➤ List the causes of asphyxia with their definitions ➤ Describe the post mortem appearance of each one of the above, giving the underlying mechanism ➤ Discuss the medico legal aspects of each ➤ Describe the steps in conducting the dissection of the neck and face. 	Lecture	4hrs
			Video presentation	1hr
35	Drowning	<ul style="list-style-type: none"> ➤ Define drowning ➤ List the probable circumstances of death in a body recovered from water ➤ List the mechanism of death in drowning ➤ List post mortem findings of immersion ➤ List post mortem findings of drowning ➤ Discuss the method of lab diagnosis of drowning 	Lecture	2 hrs
36	Forensic toxicology	<ul style="list-style-type: none"> ➤ State the circumstances of poisoning ➤ State the toxic substance of the following poisons ➤ State the routes of entry of the poisons ➤ State the clinical features of the following poisons ➤ State the macroscopic features suggestive of the following poisons at postmortem examination <p>- Introduction /Plant poisons-1hr - Agrochemicals-1hr - Drugs- therapeutic / drugs of abuse -1hr - Corrosives, CN and Pb-1hr - Alcohol-1hr</p>	Lecture	5hrs
37	Criminal Miscarriage	<ul style="list-style-type: none"> ➤ Define criminal miscarriage ➤ Discuss the methods used ➤ Describe the injuries and clinical features of criminal miscarriage ➤ List the causes of death ➤ State the law regarding criminal miscarriage ➤ Describe the pelvic dissection technique ➤ Thrombo embolism, air embolism 	Lecture	2 hrs

38	Torture & Deaths in custody	<ul style="list-style-type: none"> ➤ Define torture ➤ List the methods of torture ➤ List the clinical features of torture ➤ State the causes of death in torture ➤ State the medicolegal aspect of torture ➤ Describe the especial dissecting techniques ➤ Explain the term custody 	Lecture	2 hrs
39	Sexual offenses	<ul style="list-style-type: none"> ➤ List and describe the different type of sexual offenses punishable according to the Sri Lankan law ➤ State the laws related to sexual abuse in Sri Lanka ➤ Define rape according to the Sri Lankan law ➤ Describe the steps in the examination of a victim of sexual assault ➤ Describe the injuries that you would expect to find in a victim / assailant of alleged sexual assault ➤ List the procedure in the collection, storage, labeling and transport of specimens from such a victim / assailant and the relevant documentation ➤ Describe the steps in conducting the dissection of the perineum 	Lecture	3hrs
			Video presentation	1 hr
40	Forensic radiology	<ul style="list-style-type: none"> ➤ Discuss when radiology becomes important in medico legal work 	Lecture	1 hr
41	Forensic Photography	<ul style="list-style-type: none"> ➤ Discuss the use of photography in forensic practice (handout) 	Lecture	1hr
42	Forensic psychiatry	<ul style="list-style-type: none"> ➤ Explain the term Unsoundness of Mind and it's legal implications ➤ Explain the basis of assessing unsoundness of mind. 	Lecture	1 hr
43	Drunkenness	<ul style="list-style-type: none"> ➤ List the offences committed under the influence of alcohol(Check the ordinance) ➤ State the laws regarding drinking and driving ➤ Describe how a patient is examined for drunkenness clinically ➤ Describe how a breathalyzer test is carried out ➤ List conditions which simulate drunkenness 	Lecture	1 hr
44	Transportation Injuries	<ul style="list-style-type: none"> ➤ Describe the types and patterns of injuries sustained by pedestrians and occupants of vehicles ➤ Describe the patterns of injuries sustained by riders of motorcycles and pedal cycles ➤ Describe the patterns of injuries in railway accidents ➤ Describe the medico legal investigation of fatal RTA 	Lecture	3 hrs

45	Fire arm Injuries and injuries due to explosions	<ul style="list-style-type: none"> ➤ Describe the injury pattern caused by smooth bore and rifle weapon at different ranges ➤ Describe the injuries caused by Trap Guns ➤ Describe the injuries caused by different types of explosives ➤ List the medico legal aspects of firearm/explosive injuries 	Lecture	4hrs
46	Child Abuse and domestic violence	<ul style="list-style-type: none"> ➤ Define child abuse ➤ List the different types of child abuse ➤ Describe the features suggestive of child abuse ➤ State the laws regarding child abuse ➤ Describe the medico legal investigation in cease of a suspected child abuse 	Lecture	3hrs
47	Infanticide and SIDS	<ul style="list-style-type: none"> ➤ Define Infanticide and SIDS ➤ Describe the features of Infanticide and SIDS ➤ State the law of infanticide ➤ List steps of the perinatal autopsy technique 	Lecture	2 hrs
48	Starvation & Neglect	<ul style="list-style-type: none"> ➤ Define starvation/neglect ➤ Describe the features suggestive of starvation and neglect 	Lecture	1 hr
49	Sudden natural deaths	<ul style="list-style-type: none"> ➤ Define a sudden natural death ➤ List the causes ➤ Describe the macroscopic features of each 	Lecture	3 hrs
50	Applied Medical ethics (facilitation of rational decision making)	<ul style="list-style-type: none"> ➤ Facilitation of Ethical Decision making using case scenarios. 	Seminar	2 hrs
50	Revision	<ul style="list-style-type: none"> ➤ To clarify doubts 	Discussion	3 hrs