

**SYLLABUS FOR 2<sup>nd</sup> PROFESSIONAL****5) FORENSIC MEDICINE INCLUDING TOXICOLOGY:****(i) Goal :**

The broad goal of the teaching of undergraduate students in Forensic Medicine is to produce a physician who is well informed about medicolegal responsibilities in practice of medicine. He / She will also be capable of making observations and inferring conclusions by logical deductions to set enquiries on the right track in criminal matters and connected medicolegal problems. He / She acquires knowledge of law in relation to medical practice, medical negligence and respect for codes for medical ethics.

**(ii) Objectives:****(a) KNOWLEDGE:**

At the end of the course, the student shall be able to :

- (1) Identify the basic medicolegal aspects of hospital and general practice;
- (2) Define the medicolegal responsibilities of a general physician while rendering community service either in a rural primary health centre or an urban health centre;
- (3) Appreciate the physician's responsibilities in criminal matters and respect for the codes of medical ethics;
- (4) Diagnose, manage and identify also legal aspects of common acute and chronic poisonings;
- (5) Describe the medicolegal aspects and findings of postmortem examination in case of death due to common unnatural conditions and poisonings;
- (6) Detect occupational and environmental poisoning prevention and epidemiology of common poisoning and their legal aspects particularly pertaining to Workmen's Compensations Act;
- (7) Describe the general principles of analytical toxicology.

**(b) SKILLS:**

At the end of the course, the student shall be able to:

1. Make observations and logical inferences in order to initiate enquiries in criminal matters and medicolegal problems.
2. Diagnose and treat common emergencies in poisoning and manage chronic toxicity;
3. Make observations and interpret findings at postmortem examination;
4. Observe the principles of medical ethics in the practice of medical Profession.

**(c) INTEGRATION:**

Department shall provide an integrated approach towards allied disciplines like Pathology, Radiology, Forensic Sciences, Hospital Administration etc., to impart training regards medicolegal responsibilities of physicians at all levels of health care. Integration with relevant disciplines will provide scientific basis of clinical toxicology e.g. medicine, pharmacology etc.,

**5) SYLLABUS OF FORENSIC MEDICINE:**

Sl. No.	Name of the Unit	No. of Hours	
		Theory	Practical
1.	Introduction to legal procedure at an inquest, Criminal courts and their powers and procedures, examination of a medical witness in the court, Medical evidence, Types of witness. Conduct and duties of doctor in the witness box, procedures of examination of the body at the scene of crime, criminal trial.	4	-
2.	Medical law and Ethics-functions of medical councils, code of medical ethics, infamous conduct, rights and duties of medical practitioners, physician's responsibility in criminal matters, professional negligence, Vicarious liability, Medical records, Products liability, Medical indemnity, insurance, Euthanasia, consent in Medical practice, medical experimentation. Malingering. Consumer protection Act & Consumer courts.	4	-
3.	Identification of the living and the dead.	2	5
4.	Medicolegal Autopsy. Rules for autopsies, Autopsy of a dead body of decomposed and mutilated bodies; preservation of viscera for chemical analysis; skeletal remains; Exhumation.	2	2
5.	Death and Postmortem changes – Medicolegal aspects of death, modes of death, causes of death, Negative autopsy, sudden death, signs of death and changes following death with special reference to time since death.	2	4
6.	Mechanical wounds – Mechanism of wound production, Detailed study of wounds, Medicolegal aspects in relation to accident, suicide and Homicide, Traffic accidents, Regional injuries, Examination of wounded person.	5	6
7.	Death from starvation, cold, burns, electricity and lightning and dowry deaths.	2	-
8.	Death due to mechanical asphyxia- Hanging, strangulation, suffocation, drowning etc.	4	4
9.	Impotence, sterility, artificial insemination	2	-
10.	Medicolegal aspects of Virginity, Pregnancy and delivery & legitimacy.	3	-
11.	Sexual Offences – Rape, Unnatural offences, sexual perversions.	3	2
12.	Abortion and infanticide.	2	2

Sl. No.	Name of the Unit	No. of Hours	
		Theory	Practical
13.	Medicolegal importance of Examination of blood stains, seminal stains, hair, weapons, clothes etc.,	-	2
14.	Forensic Psychiatry	4	-
15.	Artefacts and their medicolegal Importance.	1	1
16.	Poisons-Medicolegal aspects, classification, Routes of administration, mode of action and Disposal in the body, diagnosis of poisoning in the living and dead, duties of doctor in poisoning cases in general	4	2
17.	Detailed study of poisons commonly used in India: Sulphuric acid, Oxalic acid, Carbolic acid, aspirin, pain killers, potassium permanganate, Organic irritant poisons, such as ricinus, croton, Abrus ergot, semicarpus, calotropis, cantharides, Snakes, scorpions, Bees & Wasp: opium, alcohol, Methyl alcohol, Barbiturates, Chloral hydrate, Kerosine, Anti-histaminics, Tranquilisers, Bromides, Datura, Cannabis, Cocaine, Strychnine, Cardiac poisons like Digitalis, Oleander, quinine, aconite, Hydrocyanic acid; Asphyxiants like, CO, CO <sub>2</sub> , H <sub>2</sub> S, Drug dependence and food poisoning, Metallic poisons, organo phosphorus compounds, weedicides, insedicides and rodenticides.	10	10
18.	Integrated teaching with clinical departments (Radiology, Casualty, Pharmacology, Pathology, Medicine)	6	-

#### RECOMONDED BOOKS

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| 1. Essentials of Forensic Medicine & Toxicology                | Dr.K.S.Narayana Reddy |
| 2. Modi's Text Book of Medical Jurisprudence & Toxicology      | Dr.V.Subramanyam.     |
| 3. M.K.R.Krishna's Hand Book of Forensic Medicine & Toxicology | Dr.V.V.Pillay.        |
| 4. Principles of Forensic Medicine                             | DrApurba Nandy.       |
| 5. Medical Jursiprudence & Toxicology                          | C.K.Parikh            |
| 6. Forensic Medicine by  | P.V.Guharaj.          |

#### REFERENCE BOOKS:

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| 1. Pathology of Homicide                           | Bernard Knight |
| 2. Text Book of Medical Jurisprudence & Toxicology | Glaister       |
| 3. Essentials of Forensic Medicine                 | C.J.Posson.    |
| 4. Modern Medical Toxicology                       | Dr.V.V.Pillay. |
| 5. Mannual of Legal Medicine                       | G.Radnal.      |