

FORENSIC MEDICINE (M.D.)

Program Outcome

A post graduate student, upon successfully qualifying in the M.D (Forensic Medicine) examination, should be able to:

- ❖ Become an expert in Forensic Medicine.
- ❖ Identify and define medico-legal problems as they emerge in the community and work to resolve such problems by planning, implementing, evaluating and modulating Medico-legal services.
- ❖ Undertake medico-legal responsibilities and discharge medico-legal duties in required settings.
- ❖ Keep abreast with all recent developments and emerging trends in Forensic Medicine, Medical Ethics and the law.
- ❖ Deal with general principles and practical problems related to forensic, clinical, emergency, environmental, medico-legal and occupational aspects of toxicology.
- ❖ Deal with medico-legal aspects of Psychiatry, mental health and drug addiction.
- ❖ Impart education in Forensic Medicine and Toxicology to

Course Outcome

By the end of the course, the student should have acquired knowledge (cognitive domain), professionalism (affective domain) and skills (psychomotor domain) as given below:

- ❖ Describe the legal and medico-legal system in India.
- ❖ Acquire knowledge on conduct of medico-legal autopsy independently with required physical assistance, prepare report and derive inferences.
- ❖ Identify the role of anatomy, physiology, biochemistry, microbiology, pathology, blood bank, psychiatry, radiology, forensic science laboratory as well as other disciplines of medical science to logically arrive at a conclusion in medico-legal autopsies and examination of medico-legal cases.
- ❖ Describe the principles of the techniques used in toxicological laboratory namely TLC (Thin Layer Chromatography), GLC (Gas Liquid Chromatography), AAS (Atomic Absorption Spectrophotometry), HPLC (High Performance Liquid Chromatography) and Breath Alcohol Analyzer.
- ❖ Describe relevant legal/court procedures applicable to medico-legal/medical practice.
- ❖ Describe the general forensic principles of ballistics, serology, analytical toxicology and photography.

under-graduate and post- graduate students with the help of modern teaching aids.

- ❖ Assess the students' knowledge and skills in the subject of Forensic Medicine.
- ❖ Oriented to research methodology and conduct of research in the subject.

- ❖ Interpret, analyze and review medico-legal reports prepared by other medical officers at the time of need.
- ❖ Describe role of DNA profile and its application in medico-legal practice.
- ❖ Describe the law/s relating to poisons, drugs, cosmetics, narcotic drugs and psychotropic substances.
- ❖ Describe the legal and ethical aspects of Forensic Procedures including Narco-analysis, Brain mapping and Polygraph etc.
- ❖ Describe the medico-legal aspects of Psychiatry, addiction and mental health.
- ❖ Should be able to function as a part of a team, develop an attitude of cooperation with colleagues, and interact with the clinician or other colleagues to provide the best possible opinion.
- ❖ Should be able to follow ethical principles in dealings with patients, police personnel, relatives and other health personnel and to respect their rights and with professional colleagues.
- ❖ Perform medico-legal autopsy independently with required physical assistance, prepare report and derive inferences.
- ❖ Perform medico-legal examination of users of alcohol, sexual offences, drugs and poisons and prepare report.
- ❖ Interpret histo-pathological, microbiological, radiological, chemical

analysis, DNA profile and other investigative reports for medico-legal purposes.

- ❖ Perform medico-legal examination of bones, clothing, wet specimens and weapons.
- ❖ Depose as an expert witness in a court of Law on medico-legal matters.
- ❖ Examine, identify, prepare reports and initiate management on medico-legal cases in emergency set up.
- ❖ Plan, organize and supervise medico-legal work in general/teaching/district hospitals and in any health care set up.
- ❖ Collect, preserve and dispatch various samples and trace evidences to the concerned authorities in appropriate manner.
- ❖ Provide information and consultation on all aspects of toxicology to professionals, industry, Government and the public at large.
- ❖ Manage medico-legal responsibilities in mass disasters involving multiple deaths like fire, traffic accident, aircraft accident, rail accident and natural calamities.
- ❖ Participate in various workshops/seminars/journal clubs/demonstration in the allied departments, to acquire various skills for collaborative research.