

INJURY AND DEATH

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title and Code	Credits	Credit distribution of the course			Eligibility Criteria	Prerequisite of the Course (if any)
		Lecture	Tutorial	Practical/Practice		
Injury and Death	2	0	-	2	XII Pass with Science	Nil

1. Learning Objectives

The Learning Objectives of this course are as follows:

- To explain how a medical examiner can determine the different modes of causing injury to the victim
- To make the students learn how the time of death of a cadaver can be deciphered
- To highlight the types of deaths that a person can encounter.

2. Learning Outcomes

The Learning Outcomes of this course are as follows:

- Students will be able to recognize the mode of injury by examining the pattern of wound on the victim.
- Students will be able to correlate how the type of injuries can give an idea that what type of death and what could have been the murder weapon.
- Students will be able to explain the purpose and relevance of autopsy.
- They will be able to understand how through autopsy the medical examiner can make out if death might have occurred due to drowning, electrical shock, or substance abuse.
- Students will be able to analyze and explain the causes for changes after death and the investigative issues to be addressed.
- Students will be able to understand the different types of death based on natural and unnatural causes.

3. Main Course Structure

Wherever wet lab experiments are not possible the principles and concepts can be demonstrated through any other material or medium including videos/virtual labs etc.

Unit I: Types of Injury

(7Weeks/28 Hours)

- **Laboratory 1:** Classification of abrasions, contusions and lacerations as types of blunt end injuries
- **Laboratory 2:** Classification of incision, stab, fracture as types of sharp end injuries
- **Laboratory 3:** Discussion of medico legal aspects of injury
- **Laboratory 4-5:** Case study presentations on the basis of different types of injuries

Unit II: Types of Death

(8Weeks/32 Hours)

- **Laboratory 6:** Understanding the classification of deaths as natural, accidental, suicidal and homicidal.
- **Laboratory 7:** Discuss features that can aid in determining the manner of death by strangulation, drowning or drug overdose.
- **Laboratory 8:** Discuss diagnostic features that help in determining the different modes of death (coma, syncope and asphyxiation).
- **Laboratory 9:** Determining time of death through algor mortis, livor mortis and rigor mortis
- **Laboratory 10:** Use of Forensic Entomology to determine time of death
- **Laboratory 11:** Discussion of medico legal aspects of death
- **Laboratory 12-13:** Case study presentations on the basis of different types, manner and mode of deaths

4. Teaching Methodology/Activities in the Classroom

Content presentations, virtual labs/videos, field visits and case study discussion

5. Assessment Pattern for each Unit/Practical.

Unit I:

- Assignment to determine types of injuries (10 marks)
- Case Study Presentations (20 marks)
- Test (10 marks)

Unit II:

- Assignment to determine types of deaths marks (10 marks)

- Assessment based on presentation of a crime through play marks (10 marks)

Viva marks (10 marks)

Practical Record/ File (10 marks)

6. Mapping with the Next Suggestive Course

None

7. Prospective Job Roles after a Particular Course

Skill enhancement increases employability and credibility, providing an edge in both private and governmental sectors. Students can be associated with any forensic laboratory for assistanceship with a medical examiner.

8. Essential Reading

- Wagner, Scott A (2009). *Death Scene Investigation: A Field Guide*. New York: CRC Press. ISBN# 978-1-4200-8676-8
- James, S.H. Nordby, J.J. and Bell, S. (2014). 4th Edition. *Forensic science: An introduction to scientific and investigative techniques*. Florida, USA: CRC Press. ISBN-13: 978-1439853832

9. Suggestive Reading

- Bardale, R. (2011). 1st Edition. *Principles of forensic medicine and toxicology*. New Delhi: Jaypee Brothers Medical Publishers. ISBN-13: 978-9350254936.

10. Examination Scheme and Mode

Evaluation scheme and mode will be as per the guidelines notified by the University of Delhi from time to time.