COURSE TITLE	**LAW, SCIENCE & TECHNOLOGY**
COURSE CODE	**10FL0902**
COURSE CREDITS	**4**

Objective:

1 To create acquaintance on the Subject discipline of Law, Science and Technology
2 To Learn the concept of forensic science and its legal value, Artificial Intelligence and atomic energy activities.
3 To Understand the applicable Rules and principles in all three areas in India.
4 To create acquaintance on the Subject discipline of Law, Science and Technology.
5 To Learn the concept of forensic science and its legal value, Artificial Intelligence and atomic energy activities
6 To Understand the applicable Rules and principle in all the three areas in India.

Course Outcomes: After completion of this course, student will be able to:

1 1. Define and demonstrate an understanding of facts & ideas relating to forensic science and its legal value, Artificial Intelligence and atomic energy activities' applicable laws.
2 2. Identify new situations by applying techniques & rules in a different way in Law, Science and Technology
3 3. Examine and Compare evidence to support generalizations of forensic science and its legal value in Crime Scene Investigation
4 4. Appraise the opinions by making judgments based on a set of criteria related to forensic science in various Crime Scene Investigations.
5 5. To develop new patterns of resolutions to overcome problems related to Atomic Energy activities.

Pre-requisite of course:N/A

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
3	1	0	0	30	20	25	25

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Contents : Unit	Topics	Contact Hours
1	**SCIENCE, TECHNOLOGY AND LAW** The Inter-disciplinary approach, Science and Law-The points of similarity, The progress of science, The march of law, Classification of Sciences & Their Impact on Law, Science and law Points of contact, Past responses, Adjective law and Science, Pace of the modern developments, Recent Scientific Developments, Difficulty of framing laws, Science in the service of law and society, ARTIFICIAL INTELLIGENCE - A Sampling of The Legal and Ethical Issues Posed by AI, Product Liability, Health And Safety Regulation, Fraud, Intellectual Property , Professional Ethics and Liability in Law and Healthcare, Contracts, Substantive Criminal Law , Criminal Procedure and Due Process - Admissibility of Ai-Based Evidence , Policing , Anti-Discrimination Laws, Surveillance and Privacy (Including Consumer Rights or Data Protection), Welfare Law and Other Civil Governmental Implementations, The Broader Policy Framework, National AI Development Plans China European Union France United States, The Impact of AI On Work and Employment , Principles For Ethical Development and Governance of AI	10
2	**Forensic Science for Crime Investigators- I** General Principles of Crime Scene Investigation, General Principles of Packaging of Exhibits, Forensic Biology, DNA Profiling, Bloodstain Pattern, Poisoning	10
3	**Forensic Science for Crime Investigators- II** Hooch Poisoning, Narcotics Drugs and Psychotrophic Substances, Acid Attack Cases, Forged Documents, Security Documents, Digital Evidence, Image Analysis	12
4	**The Atomic Energy** The Atomic Energy Act, 1962, Atomic Energy (Arbitration Procedure) Rules, 1983, Atomic Energy (Working of the mines, minerals and handling of prescribed substances) Rules, 1984, Atomic Energy (Safe disposal of radioactive wastes) Rules, 1987, Atomic Energy (Factories) Rules, 1996, Atomic Energy (Radiation Protection) Rules, 2004, Civil liability for Nuclear Damage Act 2010, Atomic Energy Radiation Processing of food and allied products rules 2012, Treaty on the Non-Proliferation of nuclear weapons (NPT) 1995, Nuclear third-party liability and compensation for nuclear damage and insurance , Insurance of nuclear risks, Nuclear project development: The lawyer's perspective	13
Total Hours		**45**

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Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**Issues related to law, science & technology** Contemporary Issues in Science and Law	15
Total Hours		**15**

Textbook :

1 A Forensic Guide for Crime Investigators Standard Operating Procedures , LNJN National Institute of Criminology and Forensic Science , LNJN National Institute of Criminology and Forensic Science , 2020

References:

1 1. A Forensic Guide for Crime Investigators Standard Operating Procedures, 1. A Forensic Guide for Crime Investigators Standard Operating Procedures, LNJN National Institute of Criminology and Forensic Science, Ministry of Home Affairs, Government of India, 2015

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
10.00	10.00	30.00	10.00	20.00	20.00

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