

Branch Name:	CYBER SECURITY
Program Code:	ET207
Course Title:	Introduction to Forensic Science and Cyber Law
Course Code:	2ET2070101T
Pre-requisite Course:	To enable learner to understand, explore, and acquire a critical understanding cyber law and forensic science.

Course Objectives: After successful completion of the course, student will be able to

1. The significance of forensic science to human society.
2. The fundamental principles and functions of forensic science
3. Student will be able to understand the types of Crime in Internet, Crimes targeting Computers and Scope of Cyber Laws.
4. Student will be able to evaluate the particular intellectual property rights according to the cyber law.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								Total (Marks)
					Theory (Marks)				Practical (Marks)				
	L	T	P	Total	SEE		CCA		SEE		CCA		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
3	3	-	-	3	24	60	16	40	-	-	-	-	100

Course Contents:

Unit No	Topics	Total Hours	Weight age (%)
1	Introduction to forensic science Overview of Forensic science, Scope of forensic science, Need of forensic science. Basic principles of forensic science, Frye case and Daubert standard	08	10
2	Tools and Techniques in Forensic Science Branches of forensic science. Forensic science in international perspectives, including set up of INTERPOL and FBI. Duties of forensic scientists. Code of conduct for forensic scientists. Qualifications of forensic scientists. Data depiction. Report writing, Hierarchical set up of Forensic Science Laboratories.	10	20
3	Principles of Cyber Crime and laws Prevention of Cyber Crimes & Frauds, Evolution of the IT Act 2000, Genesis and Necessity. Critical analysis & loop holes of The IT Act, 2000 in terms of cyber-crimes, Cyber Crimes: Freedom of speech in cyber space & human right issues. Features of the IT Act, 2000, Cyber Tribunal & Appellate Tribunal and other authorities under IT Act and their powers, Penalties & Offences under IT Act, Amendments under IT Act and Impact on other related Acts (Amendments): (a) Amendments to Indian Penal Code. (b) Amendments to Indian Evidence Act. (c) Amendments to Bankers Book Evidence Act. (d) Amendments to Reserve Bank of India Act.	15	35
4	IPR and Cyber Space Introduction to IP, Copyright, Related Rights, Trademarks, Geographical Indications, Industrial Design, Patents, Licensing and transfer of technology, WIPO Treaties, Copyrights Act, Patents Act, Trademarks Act. Cyber and Cyber Space with reference to Democracy and Sovereignty, Developments in Cyber law Jurisprudence, Role of law in Cyber World: Regulation of Cyber Space in India, Role of RBI and Legal Issues in case of e-commerce, E-Governance in India: Law, Policy, Practice. Cyber Space Jurisdiction (a) Jurisdiction issues under IT Act, 2000. (b) Traditional principals of Jurisdiction (c) Extra-terrestrial Jurisdiction (d) Case Laws on Cyber Space Jurisdiction (e) Taxation issues in Cyberspace.	15	35

Text Books:

1. W.J. Tilstone, M.L. Hastrup and C. Hald, Fisher's Techniques of Crime Scene Investigation, CRC Press, Boca Raton (2013).
2. S.H. James and J.J. Nordby, Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton (2005).
3. Vakul Sharma , "Information Technology Law and Practice- Cyber Laws and Laws Relating to E-Commerce", Universal Law Publishing - An imprint of LexisNexis.
4. Yatindra Singh , "Cyber Laws: A Guide to Cyber Laws, Information Technology, Computer Software, Intellectual Property Rights, E-commerce, Taxation, Privacy, Etc. Along with Policies, Guidelines and Agreements", Universal Law Publishing.

Reference Books:

1. B.B. Nanda and R.K. Tiwari, Forensic Science in India: A Vision for the Twenty First Century, Select Publishers, New Delhi (2001).
2. M.K. Bhasin and S. Nath, Role of Forensic Science in the New Millennium, University of Delhi, Delhi (2002).
3. Santosh Kumar, "Cyber Laws & Cyber Crimes", WHITESMANN.
4. Duggal Pavan , "Legal Framework on Electronic Commerce and Intellectual Property Rights in Cyberspace", Universal Law Publishing - An imprint of LexisNexis.

Course Learning Outcomes (CLO):

Course Outcomes	Description	Bloom's Taxonomy Level
COL1	Perform digital forensics analysis upon networks and network devices.	Understanding (2) Applying (3)
COL2	Utilise various forensic tools to collect digital evidence.	Applying (3)
COL3	Gain in-depth knowledge of Information Technology Act And legal framework of Right to Privacy, Data Security and Data Protection	Applying (3)
COL4	Be conversant with the social and Intellectual Property issues emerging from Cyberspace.	Applying (3)

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1	H	M		M		M										
CLO2	M		H			H			L							
CLO3	H		M	M		M										
CLO4	M	M		M	M				L							

H: High, M: Medium, L: Low