



Tulsiramji Gaikwad-Patil College of Engineering and Technology
Wardha Road, Nagpur-441108
NAAC Accredited (A+Grade) & NBA Accredited
An Autonomous Institute affiliated to RTMNU Nagpur



Third Year (Semester-V) B.Tech. CSE (Data Science)

Semester	Course Code		Name of Course	
V	33511		Introduction to Forensic Science and Cyber Law	
Teaching Scheme			Examination Scheme	
Lectures	3		CIE	20Marks
Tutorial	2		ESE	30Marks
Total Credit	3		Total	50Marks
			Duration of ESE :: 3 Hrs	
Course Objectives:				
1.	Analyze the significance, core principles, and societal functions of forensic science.			
2.	Examine the tools, techniques, international organizations (FBI, INTERPOL), ethical codes, and operational structures of forensic laboratories.			
3.	Evaluate internet-based crimes and master the scope, evolution, legal loopholes, and amendments of the IT Act, 2000.			
4.	Critically assess IPR frameworks through the lens of international treaties and relevant national legislation.			
5.	Understand the legal frameworks governing democracy, sovereignty, e-commerce, e-governance, and extraterritorial challenges in cyberspace.			
Course Contents				
Unit I	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.			
Unit II	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.			
Unit III	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, Penalties & Offences under IT Act.			
Unit IV	IPR 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.			

Unit V	Cyber Space 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.
Text Books	
1	W.J. Tilstone, M.L. Hastrup and C. Hald, Fisher's Techniques of Crime Scene Investigation, CRC Press, Boca Raton
2	S.H. James and J.J. Nordby, Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton
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	Santosh Kumar, "Cyber Laws & Cyber Crimes", WHITESMANN.
3	Duggal Pavan , "Legal Framework on Electronic Commerce and Intellectual Property Rights in Cyberspace", Universal Law Publishing - An imprint of LexisNexis.

Useful Links		
https://doi.org/10.15394/jdfsl.2016.1374		
https://forensiccoe.org/		
Course Code	Course Outcomes	CL
CO1	Describe forensic science and scope of forensic science with basic historical and legal principles (e.g., Frye and Daubert standards).	2
CO2	Utilize various forensic tools and methodologies to properly collect and depict digital evidence.	2
CO3	Understand in-depth knowledge of the Information Technology Act and the legal framework surrounding the Right to Privacy, Data Security, and Data Protection.	2
CO4	Solve the core social and Intellectual Property (IPR) issues emerging from Cyberspace.	2
CO5	Analyze the complex jurisdictional, legislative, regulatory, and taxation framework governing international and domestic Cyber Space.	2