



# GUJARAT TECHNOLOGICAL UNIVERSITY

## Bachelor of Engineering Syllabus

Subject Code : 3144802

Subject : Cyber Security Law and Compliance

WEF Academic Year	: 2022-23
Semester	: 4
Category of the Course	: Professional Core

### Prerequisite :

- Basic understanding of computer and security related concepts.

### Rationale :

- The course provide an insight of Cyber security Laws and Cybercrime investigations.
- The course focus on Cybercrime evidence for the real world scenarios and challenges.

### Course Scheme :

Teaching Scheme			Total Credits	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Practical		
				ESE (E)	PA(M)	ESE (V)	PA (I)	
04	00	02	05	70	30	30	20	150

### Course Content :

Unit	Course Content	No of Hours	%
1.	<b>Introduction :</b> Cyber security Terminology, Regulation of cyber world, Issues and challenges of cyber security. Cybercrimes and various sections, Government Examiner of Digital Evidence. Requirement of certification under different sections. Understanding the report given by cyber forensics.	8	20
2.	<b>Indian Evidence and IT Act :</b> Relevant sections of Indian Evidence Act, Admissibility of electronic evidence, Indian Penal Code and cybercrimes, Code of Criminal Procedure 1973 – search and seizure provisions, examination of witnesses through audio and video by police. Cyber crimes under the Information Technology Act, 2000, Cyber crimes under International Law, Importance of Section 65 B, certificate under Indian Evidence Act (IEA), Data Protection and Privacy Act.	11	20
3.	<b>Crime Scene Management :</b> Primary Survey, Barricade, Scene Documentation, Forensic Photography, scene photography and its method, Identification, Recognition and Recovery of evidences, Basic types of evidence- visible, plastic, latent, micro & macro, trace and ultra-trace, pattern, fragile and digital evidence. Method for Search, Collection (preservation), Handling packaging, Important evidence such as Impression evidence.	10	20
4.	<b>Electronic Evidence :</b> Electronic evidence – definition, characteristics, types, Classification of electronic evidence, Electronic Governance, Legal Recognition of Electronic Records and Electronic Evidence, Securing Electronic records and secure	11	20



# GUJARAT TECHNOLOGICAL UNIVERSITY

## Bachelor of Engineering Syllabus

Subject Code : 3144802

Subject : Cyber Security Law and Compliance

	digital signatures, Data acquisition- understanding storage formats and digital evidence, determining the best acquisition method, acquisition tools, validating data acquisitions .		
5.	<b>Psychological Assessment :</b> Psychological Profiling of Offenders. Detection of Malingering and Deception, Personality Profile: FFM, Dark Triad, Clinical profiles. Interpreting profiles. Profiling and Linking Crimes; Cyberbullying and Cyberstalking; Identity Theft; Financial crimes. Use of Brain mapping signatures: BEOS Psychological techniques for dealing with Offenders.	10	20

### Textbooks :

1. Cyber Law and Cyber Crime, Prashant Mali, Snow White Publications Private Limited (latest edition).
2. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (latest edition).

### Reference Books :

1. Digital Evidence and Computer Crime, Eoghan Casey, Academic Press. (latest edition).

### Course Outcome :

After completion of the Course, Students will be able to :

No.	Course Outcomes	RBT Level*
01	Remember the basic terminologies used for IT related acts.	RM
02	Understand the fundamental concepts related to cyber laws and compliance.	UN
03	Understand the role of crime scene management for cybercrime compliance.	UN
04	Apply the various tools and technologies used for electronic evidence for cybercrime investigation.	AP
05	Analyse the psychological aspects during the cybercrime investigations.	AN

\*RM: Remember, UN: Understand, AP: Apply, AN: Analyze, EL: Evaluate, CR: Create

### Suggested Course Practical List :

- The practical work will be carried out based on the content covered during the academic sessions.

### List of Laboratory/Learning Resources Required :

- Course-related online MOOCs on NPTEL/SWAYAM platform.
- Recently Published papers/articles in reputed journals.

\*\*\*\*\*