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|---|---|
| **INSTITUTE** | **FACULTY OF TECHNOLOGY** |
| **PROGRAM** | **BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)** |
| **SEMESTER** | **7** |
| **COURSE TITLE** | **CYBER LAWS AND ETHICS** |
| **COURSE CODE** | **01CI0722** |
| **COURSE CREDITS** | **3** |

**Objective:**

1 Understand Cyber Space, Cyber Crime, Cyber Laws, Information Technology, Internet, Internet Services

2 Know Legal Aspects of Regulation concerned with Cyber Space, Technology and Forms of Cyber Crimes

3 Understand Criminal Liability, Cyber Crime implications and challenges

4 Learn Precaution & Prevention of Cyber Crimes, Human Rights perspective of Cyber Crime

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

1 Understand Cyber Space, Cyber Crime, Information Technology, Internet & Services.

2 Analyze and discuss various forms of Cyber Crimes

3 Understand Cyber Crime at Global and Indian Perspective.

4 Describe the ways of precaution and prevention of Cyber Crime as well as Human Rights.

**Pre-requisite of course:**Basic Knowledge regarding internet, do's and don't while using the internet, passwords and cyber system.

**Teaching and Examination Scheme**

| Theory Hours | Tutorial Hours | Practical Hours | ESE | IA | CSE | Viva | Term Work |
|---|---|---|---|---|---|---|---|
| 3 | 0 | 0 | 50 | 30 | 20 | 25 | 25 |

DR. ANKUR CHANDRAKANT BHOGAYATA
**Digitally signed by (Name of HOD)**

DR. RAJENDRASINH BAHADURSINH JADEJA
**Digitally signed by (Name of Dean/ Principal)**

| Contents : Unit | Topics | Contact Hours |
|---|---|---|
| 1 | **Cyber Crimes & Cyber Law**<br>Definition and Origin of the Word, Cyber Crime and Information Security, who are Cyber Criminals, Classification of cybercrimes, E-mail Spoofing, Spamming, Forgery, Hacking, Online Frauds, Software Piracy, Computer Sabotage Email Bombing, Computer Network Intrusion, Password Sniffing, Credit Card Frauds, Phishing, vishing, Identity Theft, Social Engineering, CPU Hijackers, Darknets and Dark Markets., Evolution of computer Technology, emergence of cyber space. Cyber Jurisprudence, Jurisprudence and law, Doctrinal approach, Consensual approach, Real Approach, Cyber Ethics, Cyber Jurisdiction, Hierarchy of courts, Civil and criminal jurisdictions, Cyberspace Web space, Web hosting and web Development agreement, Legal and Technological Significance of domain Names, Internet as a tool for global access | 8 |
| 2 | **Definition and Terms - Information Technology Act**<br>Overview of IT Act, 2000, Amendments and Limitations of IT Act, Digital Signatures, Cryptographic Algorithm, Public Cryptography, Private Cryptography, Electronic Governance, Legal Recognition of Electronic Records, Legal Recognition of Digital Signature, Certifying Authorities, Cyber Crime and Offences, Network Service Providers Liability, Cyber Regulations Appellate Tribunal, Penalties and Adjudication | 8 |
| 3 | **Cyber law and Related Legislation**<br>Patent Law, Trademark Law, Copyright, Software – Copyright or Patented, Domain Names and Copyright disputes, Electronic Data Base and its Protection, IT Act and Civil Procedure Code, IT Act and Criminal Procedural Code, Relevant Sections of Indian Evidence Act, Relevant Sections of Bankers Book Evidence Act, Relevant Sections of Indian Penal Code, Relevant Sections of Reserve Bank of India Act, Law Relating to Employees & Internet, Alternative Dispute Resolution, Online Dispute Resolution (ODR) | 8 |
| 4 | **Electronic Business and legal issues**<br>Evolution and development in E-commerce, paper vs paperless contracts E-Commerce models- B2B, B2C, E security. Business, taxation, electronic payments, supply chain, EDI, E-markets | 9 |
| 5 | **Cyber Ethics**<br>The Importance of Cyber Law, Significance of cyber-Ethics, Need for Cyber regulations and Ethics, Ethics in Information society, Introduction to Artificial Intelligence Ethics: Ethical Issues in AI and core Principles, Introduction to Block-chain Ethics | 9 |
| **Total Hours** | | **42** |

**Textbook :**

1 Guide To Cyber Laws, Rodney D. Ryder, Wadhwa And Company, New Delhi, 2007

**References:**

1 Cyber Laws: Intellectual property & E Commerce, Security, Cyber Laws: Intellectual property & E Commerce, Security, K.Kumar, Dominant Publisher, 2011

**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** |
| 5.00 | 10.00 | 30.00 | 30.00 | 15.00 | 10.00 |

**Instructional Method:**

1 Prerequisite of the course and its pattern shall be discussed on the commencement of the course

2 Lectures shall be conducted in class room using various teaching aids

3 Presence in all academic sessions is mandatory which shall carry 5% marks of the total internal evaluation

4 At the end of each unit/topic an assignment based on the course content shall be given to the students which shall carry 5% weightage for timely completion and submission of the assigned work

5 The laboratory experiments are planned in such a way that it covers the practical aspects of the course contents. The performance of these experiments shall bring the clarity of the theoretical concepts which the students have studied during the academic sessions.

**Supplementary Resources:**

1 https://onlinecourses.nptel.ac.in/noc23_cs127/preview

2 https://onlinecourses.swayam2.ac.in/nou19_cs08/preview

3 https://nptel.ac.in/courses/106106129