Punyashlok Ahilyadevi Holkar Solapur University, Solapur

SKILL DEVELOPMENT CENTRE

"DIPLOMA IN CYBER LAW"

SYLLABUS

DURATION OF COURSE: 1 YEAR

NEED OF COURSE:

1. This course will look at the emerging legal, policy and regulatory issues pertaining to cyber law and cyber-crimes.

2. To cover all the topics from fundamental knowledge of Information Technology and Computer Architecture so that the students can use to understand various aspects of working of a computer.

3. To identify the emerging Cyber laws, Cybercrime & Cyber security trends and jurisprudence impacting cyberspace in today's scenario.

4. To enable the participants appreciate, evaluate and interpret the case laws with reference to the IT Act and other Laws associated with the cyberspace.

5. To provide knowledge related to auditing of computer systems, managing and mitigating risk situations in the organization and techniques for investigating financial frauds.

7. To provide the students with comprehensive and up-to-date knowledge of cyber law

8. To provide the students in depth knowledge of Information Technology Act.

9. To introduce the students with the recent development in the field of cyber law related to right to privacy, data Protection etc.

10. To make aware the candidates the about types of cybercrime and its impact

EMPLOYMENT AND ENTREPRENEURSHIP OPPORTUNITIES FROM COURSE:

1. We are now living in the digital age. The greater the usage of technology and the internet, the greater the opportunity for a career in cyber law. Cyber law is growing at a rapid rate in compared to other fields.

2. One of the best rewards of pursuing a profession in cyber law is that you will be well compensated. Cyber law professionals can earn a good amount average income.

3. After the completion of the Cyber Law Diploma, students can explore opportunities in the field of Law Firms, Government Firms or Public Departments, Corporate Business, IT, and Software industry, Cyber consultant, etc.

4. Building a career in cyber law will need you to learn something new every day, as technology changes on a daily basis, and cyber law experts must continually study and grow to keep up.

Tentative Fees: 10,000 /-

Minimum Admission Eligibility for Student: Bachelor's degree or an equivalent degree in any specialization from a recognized university, preference will be given to the students' have law background or Information Technology related background

SCHEME OF EXAMINATION
- The Duration of this course shall be one Academic Year.
- The examination for the diploma course will be held at the end of the academic year.
- The medium of instruction and the examination shall be in English.

A) Theory papers

Each theory paper comprises of 100 marks out of which 80 marks are for written examination which will be conducted by the university and 20 marks for internal examination which will be conducted at college level. The Candidate has to secure a minimum 40% marks in each theory paper. The Candidate have to secure minimum 32 marks out of 80 marks in theory Examination and 08 marks out of 20 marks in internal practical Examination at college level.

Internal Examinations of Total Marks: 20

Pattern / Examination nature may be as follows (Any Two of Following):
- Written test
- Home Assignments
- Viva-Voce
- Any other activity designed by the concerned subject teacher

B) Practical Papers: There will be **two** practical papers Hundred Marks each.

Paper I: Dissertation

The Dissertation Thesis submitted by the student will be evaluated jointly by the internal and external examiners during the practical examination. The distribution of marks will be as Follows:

a) Dissertation - 80 marks

b) Viva-voice - 20 marks

Paper II: Practical training / Field work

In this paper College/Institution should provide the actual practical training to the students as a part of cyber security training on basic topics and on up-to-date information. This paper can cover practical aspects like,

- Visit to Cyber Cell
- Seminar PPT Presentation
- Open book examination
- Field Work report
- Small Project Report etc.
- Special Guest on Cyber Law topics
- Training on Email Phishing Attacks, Protecting Your Passwords, Protecting Company Data, social media Policy, Safe Internet Habits, Protection against ransomware, Use anti-virus software etc.
- Students will be writing an article under the guidance of their teacher.
- Case Studies
- Short team Internship in collaboration with a Cyber firm

    The College shall conduct MINIMUM FIVE of the above activities. The record of Practical's activities should be maintained by the college, basing upon the performance of the student's college will allot the marks out of Hundred.

SYLLABUS STRUCTURE

COURSE TITLE: "DIPLOMA IN CYBER LAW"

Name of Skill Course	Duration	Name of Paper	Paper	Hours Per Paper	Theory	Internal	Practical	Credits
Diploma in Cyber Law	1 Year	1. Introduction to computer and cyber security.	I	45	80	20	0	3 Credits
		2. Introduction to IT Act, cyber law & cyber crime	II	45	80	20	0	3 Credits
		3. Cyber law, intellectual property and other relevant acts	III	45	80	20	0	3 Credits
		4. Electronic commerce and electronic governance	IV	45	80	20	0	3 Credits
		5. Dissertation	V	90	-	-	100	3 Credits
		6. Practical training / Field work	VI	90	-	-	100	3 Credits
Total				**180**	**320**	**80**	**200**	**18 Credits**

Abbreviations:

Theory- Theory Evaluation,

Internal. - Internal Evaluation,

Practical. - Practical evaluation.

SYLLABUS DETAILS

PAPER- I

1. **Paper Name & Number**: <u>Introduction to Computer and Cyber Security(Theory) -1</u>

2. **Objectives of Paper**: This Paper is aimed to extend professional expertise and to understand Introduction to Computer and CyberSecurity.

3. **Expected out comes from Paper**:

• To enable the students to acquaint with Basic concepts of Computer

• To acquaint the students with practical implications of Cyber security

INTRODUCTION TO COMPUTER AND CYBER SECURITY – 45 Lectures

1. Introduction to Computer and Components and concepts of Computers.

2. Basics of Network and Internet, types of Networks, Definition of cybersecurity.

3. Introduction to Computer operating System

4. Search Engines - E mails & www Internetworking devices, Internet serviceProviders, IP Address, working of email system, domain name system, Blogs, Peer to peer sharing.

5. Cryptography - Types & goals.

6. Computer and Cyber security

   a) Types of attacks

   b) Network Security

   c) Overview of security threats

   d) Hacking Techniques

   e) Password Cracking

   f) Insecure Network connections

   g) Malicious code

   h) Concept of Firewall security.

7. Email security - Web authentication, SSL & SET

8. Database Security

9. Operating system security.

10. E - Commerce & M - Commerce system security.

11. Advance computer Network & Mobile security Techniques.

BIBLIOGRAPHY: -

1. Cyber Law & Crimes – Barkha, U. Rama Mohan. – Pub. Asia Law House,Hybrabad.

2. Cyber Crime – N.C. Jain.- Allahabad Law Agency.

3. Management Information & Control System. – Dr. Sushila Madan - Taxmanns.

4. The Soul of a New Machine – Tracy Kidder – Washington Post Book World.

5. Arihant's Handbook Series -Computer Science & IT.

6. Introduction to Artificial Intelligence – Eugene Charniak Drew MacDermott.

   - Pearson.

PAPER - II

1. **Paper Name & Number**: <u>Introduction to IT Act, Cyber Law & Cyber-Crime (Theory) -2.</u>

2. **Objectives of Paper:** This Paper is aimed to Legal Awareness Information& Knowledge of Introduction to Cyber Law & Cyber-crime.

3. **Expected out comes from Paper: II**

• To enable the student to get acquainted with Cyber Law

• To enable students to know about various modes of Cyber Crimes and remedies provided.

INTRODUCTION TO IT ACT, CYBER LAW & CYBER CRIME

1. Definition of Cybercrimes & Computer related crimes.

2. Computer Crimes & Types

3. Types of cyber-crime, modes & Manners of committing Cybercrime.

    a) Hacking

    b) Spreading virus & Worms

    c) Pashing

    d) Cyber stalking / bullying

    e) Data theft

    f) Credit Card & online Banking frauds

    g) Illegal online selling & Gambling

    h) Pornography / Child pornography, Obscenity

    i) Cyber terrorism

    j) Software Piracy & Illegal downloading

4. Information Technology Act 2000

    a) Genesis and Objectives of the Act

    b) Authorities under the Act

    c) Offences & Penalties

    d) Exemption from liability of intermediary in certain cases

    e) Miscellaneous Provisions under Information Technology Act 2000.

5. Cybercrimes - Freedom of speech in Cyber Space & Human Rights issues

    a) Investigation of Cybercrimes.

6. Agencies for Investigation in India & their Powers & Rules under ITS Act 2000.

7. Electronic & Digital Evidence

8. International Organizations & Conventions.

    a) WTO & TRIPS

    b) ICANN

    c) URDP

    d) WCAG

    e) Interpol & Europol

    f) Budapest Convention

9. Landmark Judgments

    a) State of Tamil Nadu v. SuhasKatti

    b) Nasscom v. AjaySood& Others

    c) Firos v. State of Kerala

    d) Avinash Bajaj v. State of Delhi.

BIBLIOGRAPHY: -

1. Cyber Law & Crimes – Barkha, U. Rama Mohan. – Pub. Asia Law House, Hybrabad.

2. Cyber Crime – N.C. Jain.- Allahabad Law Agency.

3. Law of Information Technology (Cyber Law) D.P. Mittal, - Taxmann's.

4. Guide to Cyber Laws – By Rohnay D. Ryder (Wadhwa, Nagpur.)

5. Encyclopedia of Cyber Laws – Sujeet Kumar.

1. **Paper Name & Number:** <u>Cyber Law, Intellectual Property and Other Relevant Acts (Theory) – 3.</u>

2. **Objectives of Paper**: This Paper is aimed to extend Knowledge of Cyber Law, Intellectual property and other relevant Acts.

3. **Expected out comes from Paper III:**

• To enable the students to get acquainted with relation of Intellectual Property Rights and cyber-Crimes

• To enable the student to know about various other relevant Acts in relation to Cyber Crimes and cyber security and procedure.

CYBER LAW, INTELLECTUAL PROPERTY AND OTHER RELEVANT ACTS

1. Copyright Act

   a) Meaning of Copyright

   b) Author & ownership of Copyright

   c) Rights of owner, Term of Copyright

   d) Assignment/Licenses of Copyright

   e) Registration of Copyright

   f) Copyright infringement & Regulatory Authority

   g) Offences & Penalties

2. Patent issues and Internet.

3. Trademarks related Issues.

   a) Trademarks Act 1999

   b) Definition of Trademark

   c) Procedure for Registration of Trademark

   d) Duration, Removal and Restoration of Trademark

   e) Offences & Penalties

4. Semiconductor Integrated Circuits Layouts Designs Act 2000

   a) Industrial Design - Meaning

   b) Registration of Design

   c) Infringement of Copyright in Design

   d) Defences

5. Geographical Indications of Goods (Registration & Protection) Act 1999

a) Geographical Indications - Meaning

b) Procedure for Registration, Duration, Renewal, Restoration

c) Offences & Penalties

6. Piracy and Software

7. Other Relevant Acts

a) Indian Penal Code

b) Criminal Procedure Code

c) Reserve Bank of India Act

d) Indian Evidence Act - Electronic Evidence

e) Indian Contract Act

f) Consumer Protection Act 1986.

BIBLIOGRAPHY: -

1. Intellectual Property Law- P. Narayanan- Eastern Law House. New Delhi.

2. Law of Intellectual Property As amended By the Criminal Law (Amendment) Act, 2013. – Dr. S.R. Mymeni.- Asia Law House. Hyderabad.

3. The Indian Penal Code. - Ratanlal & Dhirajlal.- Lexis Nexis.

4. Indian Penal Code – Batuk lal – Central Law Agency.

5. The Code of Criminal Procedure – Ratanlal & Dhirajlal.- LexisNexis Butterworth's Wadhwa Nagpur.

6. The Consumer Protection Act (Act No. 68 of 1986) -Dr. S.C. Tripathi. - Central Law Publications.

7. Consumer Protection Act 1986 – O.P.Tiwari & Company – Allahabad Law Agency.

8. Contract and Specific Relief. - Avtar Singh. - Eastern Book Company.

9. The Law of Evidence. - Raranlal & Dhirajlal – LexisNexis Butterworhts Wadhwa Nagpur.

10. Reserve Bank of India Act. – Bare Act.

1. **Paper Name & Number:** - Electronic Commerce and Electronic Governance (Theory) – 4.

2. **Objectives of Paper**: This Paper is aimed to extend Knowledge of Electronic Commerce and Electronic Governance.

3. **Expected out comes from Paper IV:**

- To enable the student to get acquainted with E - Commerce and various Authorities.
- To enable the students to know about the E - Governance and various Authorities, issues and Challenges before E - Governance

ELECTRONIC COMMERCE AND ELECTRONIC GOVERNANCE

1. Introduction to E - Commerce

2. Benefits, modes and transactions of e-commerce commerce

3. Security issues in e - commerce

4. Consumer Protection issues in E - Commerce

6. Electronic Payments

a) Credit and Debit card Payments

b) Electronic Cash

c) Digital Signature

d) Digital Certificate

e) Authorities governing Digital Signature

7. E - Governance

a) Government interface with Technology

b) Strategies for E - Government

c) E - Government - Key issues and Challenges

d) E - Government - Global scenario

8. UNCITRAL Model Law on E – Governance

BIBLIOGRAPHY: -

1. E-Commerce Fundamentals and Applications. – Henry Chan- Wiley India Edition.

2. A-Z E-Commerce – Sumit Sethi.-Centrum Press New Delhi.

3. E-Commerce & its Applications – Dr. U.S. Pandey, Rahul Srivastva & Saurabh. – Shulka. S. Chand. & Company New Delhi.

4. Electronic Commerce from Vision to Fulfillment Elias M Awad. Pearson Education