

# **Government Institute of Forensic Science, Nagpur**

## **Department of Cyber Forensics**

### **Post graduate diploma in Digital and Cyber forensics and related law**

#### **Course Outcome**

#### **Paper I: Basic of Computer and Internet Security**

Objectives: This course covers the topics

- Fundamentals of Computers
- Basics of Computer Network
- Operating system overviews
- Internet

Outcomes: After completion of this course student will know about

- Evolution of Computer
  - Components of Computer
  - Types of Memory
  - Types of operating system and its functions
  - Windows and Linux
  - Types of network and network topologies
  - OSI and TCP/IP
  - Internet and ways of communication
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#### **Paper II: Advance Computer Security Techniques**

Objectives: This course covers the topics

- Concealment Techniques
- Forensic Speaker Recognition
- Image Processing
- Computer Security

Outcomes: After completion of this course student will know about

- Steganography
- Anti-Forensic
- Cloaking Techniques
- Speech and its uniqueness

- Forensic Significance of speech
  - Basics of Image processing
  - Image Enhancement in spatial and frequency domain
  - Types of Attacks on Computer
  - Goals of Security
  - Malicious code
  - Email, Web and database security
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### **Paper III: Cyber Crimes and Investigation Procedures**

Objectives: This course covers the topics

- Cyber Crimes
- Information Technology Act 2000
- Computer Crime Investigation

Outcomes: After completion of this course student will know about

- Types of Cyber Crime
- Provisions in Indian Laws in dealing with cyber crime
- Cyber Crime Investigation Process
- Agencies for Cyber Crime investigation

### **Paper IV: Regulations of Cyberspace**

Objectives: This course covers the topics

- International Organizations and Their Roles
- Evolution Genesis and Necessity Of Information Technology Act 2000.
- Domain Names And Trademark Disputes
- Concept of Copyright and Patent in Cyberspace.

Outcomes: After Completion of this course student will know about

- Roles of Various International Organizations of Cyberspace
- Laws Relating to Cyber Crimes in India
- International perspective of Cyberspace
- Domain name
- Trade Disputes
- Reverse Hijacking
- Cyber squatting
- Intellectual Property Laws in respect of Cyberspace in India