# *Digital Forensics chapter wise book name*

| Unit No. | Chapter Name | Book Name | Chapter No. & Topic No | Remark |
|---|---|---|---|---|
| UNIT 1 **Introduction** | Introduction of Cyber Crime | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | **Chapter 1** 1.1 ,1.2, 1.3 | √ |
| | Computer roles in Crime, | | **Chapter 1** 1.6.1.7,1.8 | √ |
| | Introduction to Digital Forensics and its uses | | **Chapter 2** 2.1-2.7 | √ |
| | Forensics Evidence, Collection, | | **Chapter 3** (Complete Chapter) | √ |
| | Processing and the phases of forensics investigation, | | Chapter 2 (2.8- Any 3-4 **Models** can be done) | 2.8.3 2.8.6 2.8.8 2.8.13 2.8.22(Only these models need to study) |
| | Types of Computer Forensics | | Chapter 2 2.4 | Explain types like mobile, cloud forensic etc |
| 2 Data Recovery | Encryption and Decryption | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | General Description about Encryption and decryption need to be discussed | No need to explain methods of cryptography |
| | Recovery deleted files | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | Chapter 9 9.1.5,9.1.6 | √ |

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| | | | | Research Paper and PPT Contents |
|---|---|---|---|---|
| | Identifying false images and Steganography methods for media data including text, image and audio data | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | | |
| 3 Digital Evidence Controls | Uncovering attacks that evade detection by event viewer and task manager. | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | It's a practical Based ( 10.9 all types can be included – | √ |
| | Memory image acquisition /duplication techniques and their limitations | | Chapter 7 7.1 to 7.5 | √ |
| 4. Network Forensics | Different attacks in network | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | Chapter 10 10.1 to 10.4 | √ |
| | collecting and analyzing network based evidence in windows and Unix environment | | Chapter 6 (Complete Chapter) and 9(9.2,9.3) | √ |
| | Email forensics for standard protocols | | Chapter 12 12.1 ,12.2 12.3,12.4 12.5,12.6 12.8,12.9 | √ |
| 5. Mobile Phone and | Crime and mobile phones Evidences | Digital Forensic : The Fascinating World of | Chapter 13 13.1 | |

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|---|---|---|---|---|
| Android Forensics | forensic procedures, files present in SIM Card, Device data, | Digital Evidence (Wiley Publication) | 13.2 13.3 | √ |
| | External memory dump & evidences in memory card, | | | |
| | Android forensic fundamental, | Reference book number 6 from syllabus (Practical Mobile Forensics) | Android Model has to be taught in detail. Three data extraction technique to be taught. | √ |
| | Data extraction techniques, | | | |
| | screen lock bypassing techniques | | Discuss theory part of it and Students can be asked case study or seminar | No questions on this for university exam |
| 6 Cloud Forensics | Fundamentals of cloud forensics, | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | Chapter 16 16.1 To 16.6 | √ |
| | Cloud crimes, | | | |
| | Uses of cloud forensics and its challenges, | | | |
| | Interaction of Email system with local and cloud storage | -- | -- | No questions on this for university exam |
| 7 Real forensic Case and Its Tools | Processing a complete forensic case and preparing a forensic report and | Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication) | Chapter 11 | Case Study /Seminar /Assignment Need to be given to students |
| | Introduction of some forensic tools- Helix, FTK, Autopsy and FIRE | Digital Forensic : The Fascinating World of Digital Evidence | Chapter 14 | No questions on this for |

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| | | (Wiley Publication) | | university exam |
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## **Note:**

1. Please refer to the book by Nilakshi Jain 'Digital Forensic : The Fascinating World of Digital Evidence (Wiley Publication)

2. No questions on tool can be asked in university exam; practically demo can be shown in classroom for students.

3. Equal Weightage is given to chapters from 1 to 6

4. The points written in REMARK column are the points discussed with faculty present for orientation in meeting to finalize the contents ,Question format and the portion which should be covered as seminar/ discussion / demonstration in the class.