

SSN COLLEGE OF ENGINEERING
Department of CSE
COURSE PLAN

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|--------------------------|---|---------------------------------------|
| SUBJECT NAME | : | Cyber Forensics |
| SUBJECT CODE | : | CS6004 |
| DEGREE / YEAR | : | B.E., CSE / IV YEAR/ B Section |
| BATCH | : | 2014-2018 |
| SEMESTER | : | VII (2017-18:Odd) |
| NAME OF THE STAFF | : | Dr.S. Saraswathi |
| DESIGNATION | : | Associate Professor |

(Content Delivery Methods(CDM)): **Powerpoint presentations\Projector\Use of ICT\Chalk and Blackboard (for all topics), T-Tutorial**

| S.No | Unit No | Topic | CDM | No of Hrs (plan) | No of Hrs (actual) | Remarks |
|------|---|--|-----|------------------|--------------------|---------|
| 1 | UNIT 1 (9 Hrs) NETWORK LAYER SECURITY & TRANSPORT LAYER SECURITY | IPSec Protocol - IP Authentication Header | | 1 | | |
| 2 | | IP ESP | | 1 | | |
| 3 | | Key Management Protocol for IPSec | | 2 | | |
| 4 | | Transport layer Security: SSL protocol | | 2 | | |
| 5 | | Cryptographic Computations | S | 1 | | |
| 6 | | TLS Protocol | | 2 | | |
| | | Planned Hours | | 9 | | |
| 1 | UNIT 2 (9 Hrs) E-MAIL SECURITY & FIREWALLS | PGP | | 2 | | |
| 2 | | S/MIME | | 1 | | |
| 3 | | Internet Firewalls for Trusted System: Roles of Firewalls | | 1 | | |
| 4 | | Firewall related terminology, Types of Firewalls | | 1 | | |
| 5 | | Firewall designs | | 1 | | |
| 6 | | SET for E-Commerce Transactions. | | 3 | | |
| | | Planned Hours | | 9 | | |
| 1 | UNIT 3 (9 Hrs) INTRODUCTION TO COMPUTER FORENSICS | Introduction to Traditional Computer Crime | | 1 | | |
| 2 | | Traditional problems associated with Computer Crime | | 1 | | |
| 3 | | Introduction to Identity Theft & Identity Fraud. | | 1 | | |
| 4 | | Types of CF techniques -- Incident and incident response methodology | | 1 | | |

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|---|--|--|----------|----------|--|--|
| 5 | | Forensic duplication and investigation | | 1 | | |
| 6 | | Preparation for IR: Creating response tool kit and IR team | | 1 | | |
| 7 | | Forensics Technology and Systems | | 1 | | |
| 8 | | Understanding Computer Investigation | | 1 | | |
| 9 | | Data Acquisition | | 1 | | |
| | | Planned Hours | | 9 | | |
| 1 | UNIT 4 | Processing Crime and Incident Scenes | | 2 | | |
| 2 | (9 Hrs) | Working with Windows and DOS Systems. | | 2 | | |
| 3 | EVIDENCE COLLECTION AND FORENSICS TOOLS | Current Computer Forensics Tools: Software/ Hardware Tools | | 5 | | |
| | | Planned Hours | | 9 | | |
| 1 | | Validating Forensics Data | | 1 | | |
| 2 | | Data Hiding Techniques | | 2 | | |
| 3 | UNIT 5 | Performing Remote Acquisition | | 2 | | |
| 4 | (9 Hrs) | Network Forensics | S | 1 | | |
| 5 | ANALYSIS AND VALIDATION | Email Investigations | | 2 | | |
| 6 | | Cell Phone and Mobile Devices Forensics | | 1 | | |
| | | Planned Hours | | 9 | | |

Total Number of Syllabus Hours : 45

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Content Delivery Methods (CDM): Lecture and Seminar