



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Bachelor of Technology (CSE with Specialization in Information
and Cyber Security)
SEMESTER-IV (2023-27)

| COURSE CODE | CATEGORY | COURSE NAME | TEACHING & EVALUATION SCHEME | | | | | L | T | P | CREDITS |
|-------------|----------|---|------------------------------|---------------|-----------------------|-------------------------|-----------------------|---|---|---|---------|
| | | | THEORY | | | PRACTICAL | | | | | |
| | | | END SEM University Exam | Two Term Exam | Teachers Assessment * | END SEM University Exam | Teachers Assessment * | | | | |
| ML307 | BS | Environmental Management and Sustainability | 60 | 20 | 20 | 0 | 0 | 4 | 0 | 0 | 4 |

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks

Course Educational Objectives (CEOs):

The student will have ability to:

1. To create awareness towards various environmental problems.
2. To create awareness among students towards issues of sustainable development.
3. To expose students towards environment friendly practices of organizations.
4. To sensitize students to act responsibly towards environment.

Course Outcomes (COs):

The students will be able to:

1. The course will give students an overview of various environmental concerns and practical Challenges in environmental management and sustainability.
2. Emphasis is given to make students practice environment friendly behavior in day-to-day Activities.

Unit I: Introduction to Environment Pollution and Control

10HRS

1. Pollution and its types (Air, Water, and Soil): Causes, Effects and Control measures
2. Municipal Solid Waste: Definition, Composition, Effects
3. Electronic Waste: Definition, Composition, Effects
4. Plastic Pollution: Causes, Effects and Control Measures

Unit II: Climate Change and Environmental Challenges

9HRS

1. Global Warming and Green House Effect
2. Depletion of the Ozone Layer
3. Acid Rain
4. Nuclear Hazards



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Unit III: Environmental Management and Sustainable Development

8HRS

1. Environmental Management and Sustainable Development: An overview
2. Sustainable Development Goals (17 SDGs)
3. Significance of Sustainable Development
4. Environment Friendly Practices At Workplace and Home (Three Rs' of Waste Management, Water Conservation, Energy Conservation)

Unit IV: Environmental Acts

7HRS

1. The Water (Prevention and Control of Pollution) Act, 1974: Objectives, Definition of Pollution under this act, Powers and Functions of Boards
2. The Air (Prevention and Control of Pollution) Act, 1981: Objectives, Definition of Pollution under this act, Powers and Functions of Boards
3. The Environment (Protection) Act, 1986: Objectives, Definition of important terms used in this Act, Details about the act.
4. Environmental Impact Assessment: Concept and Benefits

Unit V: Role of Individuals, Corporate and Society

8HRS

1. Environmental Values
2. Positive and Adverse Impact of Technological Developments on Society and Environment
3. Role of an individual/ Corporate/ Society in environmental conservation
4. Case Studies: The Bhopal Gas Tragedy, New Delhi's Air Pollution, Arsenic Pollution in Ground Water (West Bengal), Narmada Valley Project, Cauvery Water Dispute, Fukushima Daiichi Disaster (Japan), Ozone Hole over Antarctica, Ganga Pollution, Deterioration of Taj Mahal. Uttarakhand flash floods



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Textbooks:

1. Rogers, P.P., Jalal, K.F., Boyd, I.A.(Latest Edition) . An Introduction to Sustainable Development. Earthscan
2. Kalam, A.P.J. (Latest Edition). Target 3 Billion: Innovative Solutions Towards Sustainable Development. Penguin Books
3. Kaushik, A. and Kaushik (Latest Edition). Perspectives in Environmental Studies. New Delhi: New Age International Publishers.
4. Dhameja, S.K. (Latest Edition). Environmental Studies. S.K. Kataria and Sons.New Delhi
5. Bharucha,E. (Latest Edition). Environmental Studies for Undergraduate Courses. New Delhi: University Grants Commission.
6. Wright, R. T. (Latest Edition). Environmental Science: towards a sustainable future. New Delhi: PHL Learning Private Ltd.
7. Rajagopalan, R. (Latest Edition). Environmental Studies. New York: Oxford University Press.

References:

1. R. Rajagopalan(2006).Environmental Studies. Oxford University Press.
2. M. AnjiReddy(2006).Textbook of Environmental Sciences and Technology. BS Publication.
3. Richard T. Wright (2008).Enviromental Science: towards a sustainable future PHL Learning Private Ltd. New Delhi.
4. Gilbert M. Masters and Wendell P. Ela.(2008).Environmental Engineering and science. PHI Learning Pvt Ltd.
5. Daniel B. Botkin& Edwards A. Keller (2008). Environmental Science Wiley INDIA edition.
6. AnubhaKaushik(2009).EnviromentalStudies. New age international publishers.



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Course Educational Objectives (CEOs):

The student will have ability to:

1. To differentiate among the various database system according to their function.
2. To understand the process to develop database model and database design.
3. To understand managing a database using Structured Query Language.
4. To expand an understanding of necessary DBMS concepts such as: Database Transactions, Database Security, Integrity, Concurrency.
5. To understand and build a straightforward database system and show competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. The students will be able to:

1. Construct conceptual data models by identifying the entities and relationships.
2. Evaluate the normality of a logical data model and correct any anomalies.
3. Develop physical data models for relational database management systems.
4. Implement relational databases using a RDBMS

Work as a valuable member of a database design and implementation team.



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Syllabus:

UNIT I

10HRS

Introduction: Concept & Overview of DBMS, Three Schema Architecture of DBMS, Database Approach v/s Traditional File Accessing Approach, Advantages of Database Systems, Data Models, Schema and Instances, Data Independence, Data Base Language and Interfaces, Functions of DBA and Designer, Database Users. **Entity-Relationship Model:** Basic concepts, Design Issues, Mapping Constraints, Keys, Entity- Relationship Diagram, Weak Entity Sets and Extended E-R features. ER Diagram to Relational Table conversion.

UNIT II

9HRS

Relational Model: Structure of Relational Databases, Relational Algebra, Relational Calculus, Extended Relational Algebra Operations, Joins and its type. Integrity Constraints. Referential Integrity, Intension and Extension.

UNIT III

8HRS

SQL and PL/SQL: SQL commands, Set operations, Aggregate Functions, Null Values, Domain Constraints, Assertions, Views, Nested Sub Queries, Stored Procedures and Triggers, Database Security, Application development using PL-SQL. **Relational Database Design:** Functional Dependency, Database Anomalies, Normalization and its forms, Multi-Valued Dependencies, 4NF, Join Dependency, 5NF.

UNIT IV

7HRS

Transaction and Concurrency Control: Physical Data Structures, Query Optimization, Transaction Model properties, State Serializability, Concurrency control protocols, Multiple Granularities,



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Granularity of Data Item. Multi version schemes, Database Recovery Methods, Recovery in Multi-Database System and Database Backup and Recovery from Catastrophic Failure

UNIT V

8HRS

File Organization and Index Structure: File & Record Concept, Placing file records on Disk, Types of Records, Types of Single-Level Index, Multilevel Indexes, Dynamic Multilevel Indexes using B tree and B+ tree . Mongo DB, NoSQL types, Features and tools.

Textbooks:

1. Henry F. Korth and Silberschatz Abraham, “Database System Concepts”, Mc.GrawHill, 6th Edition, 2015.
2. Elmasri, Navathe, “Fundamentals of Database Systems”, Pearson Educations 7th Edition, 2016.

References:

1. Raghu Ramakrishnan and Johannes Gehrke “Database Management Systems” McGraw- Hill Education, 2003.
2. Kahate, Atul “Introduction to Database Management Systems” Pearson Education India, 2006.
3. C J Date, “An Introduction to Database System”, Pearson Educations, 8th Edition, 2004
4. Ivan Bayross, “SQL, PL/SQL - The Programming Language of Oracle”, BPB Publications 4th Revised Edition, 2010.
5. SeemaKedar, Database Management System, Technical Publications, 2009.
6. Rajiv Chopra, Database Management System (DBMS) A Practical Approach. Kindle Edition, S Chand (December 1, 2010), 2017.



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List of Practical:

1. Design a Database and create required tables. For e.g. Bank, College Database.
2. Apply the constraints like Primary Key, Foreign key, NOT NULL to the tables.
3. Write a SQL statement for table and record handling like implementing INSERT statement, using SELECT and INSERT together, DELETE, UPDATE, TRUNCATE statements, and DROP, ALTER statements.
4. Write the queries for Retrieving Data from a Database Using the WHERE clause, using Logical Operators in the WHERE clause, Using IN, BETWEEN, LIKE, ORDER BY, GROUP BY and HAVING Clause, Using Aggregate Functions and Combining Tables Using JOINS.
5. Write the query for implementing the following functions: MAX (), MIN(), AVG (), COUNT().
6. Write the query to implement the concept of Integrity constraints.
7. Write the query to create the views.
8. Perform the queries for triggers.
9. Perform the following operation for demonstrating the insertion, updating and deletion using the referential integrity constraints.
10. Write the query for creating the users and their role. Using GRANT and REVOKE operations.
11. Develop a small application for a patient admitted in a hospital which has capability of inserting, deleting, updating, the patient record. The application should also be able to search the patients record by its id.



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| BTCS302N | DCC | Analysis & Design of Algorithms | 60 | 20 | 20 | 30 | 20 | 3 | 0 | 2 | 4 |

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Course Educational Objectives (CEOs):

The student will have ability to:

1. To learn the algorithm analysis techniques.
2. To critically analyze the efficiency of alternative algorithmic solutions for the same problem
3. To understand the limitation of algorithm power.
4. To understand different algorithm design techniques.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

The students will be able to

1. Define the basic concepts of algorithms and analyze the performance of algorithms.
2. Explain different standard algorithm design techniques, namely, divide & conquer,
3. Greedy, dynamic programming, backtracking and branch & bound.
4. Demonstrate standard algorithms for fundamental problems in Computer Science.
5. Design algorithms for a given problem using standard algorithm design techniques.
6. Analyze and compare the efficiency of various algorithms of a given problem.
7. Identify the limitations of algorithms in problem solving.
8. To identify the types of problem, formulate, analyze and compare the efficiency of Algorithms.



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Syllabus:

UNIT I

10HRS

Algorithms Designing: Algorithms, Analyzing Algorithms, Asymptotic Notations, Heap Sort, Sorting and Searching Algorithms and their Analysis in terms of Space and Time Complexity.

Divide and Conquer:

General Method, Binary Search, Merge Sort, Quick Sort, Selection Sort, Strassen's Matrix Multiplication Algorithms.

UNIT II

9HRS

Greedy Method: General Method, fractional Knapsack Problem, Job Sequencing with Deadlines, Minimum-Cost Spanning Tree - Prim's and Kruskal's algorithm, Single Source Shortest Paths.

UNIT III

8HRS

Dynamic Programming: General Method, Optimal Binary Search Trees, 0/1 Knapsack, multistage graph, Traveling Salesperson Problem, All Pairs Shortest Paths.

UNIT IV

7HRS

Backtracking: General Method, 8-Queens Problem, Graph Coloring, Hamiltonian Cycles, Sum of Subsets.

Branch and Bound: General Method, 0/1 Knapsack Problem, Traveling Salesperson Problem.

UNIT V

8HRS

NP Hard and NP Complete Problems: Basic Concepts, Cook's Theorem, NP Hard Graph and NP Scheduling Problems, Some Simplified NP Hard Problems.



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1. Ellis Horowitz and Sartaj Sahni, “Fundamental of Computer Algorithms”, 2nd Edition, Galgotia Publication, 2001.

References:

1. Thomas H Cormen, Charles E Leiserson and Ronald L Rivest “Introduction to Algorithms”, 3rd Edition, MIT Press. 2009.
2. Donal E Knuth, “Fundamentals of Algorithms: The Art of Computer Programming” Vol 1, 3rd Edition, Pearson Education, 1997.
3. Goodman, S.E. & Hedetniemi, “Introduction to Design and Analysis of Algorithm”, Tata McGraw Hill, 1977.
4. S. Dasgupta, C. H. Papadimitriou, and U. V. Vazirani, “Algorithms”, Tata McGraw Hill, 2006.
5. J.E Hopcroft, J.D Ullman, “Design and analysis of algorithms” TMH Publication.

List of Practical:

1. Write a program for Iterative and Recursive Binary Search.
2. Write a program for Merge Sort.
3. Write a program for Quick Sort.
4. Write a program for Strassen’s Matrix Multiplication.
5. Write a program for minimum spanning trees using Kruskal’s algorithm.
6. Write a program for minimum spanning trees using Prim’s algorithm.
7. Write a program for single sources shortest path algorithm.
8. Write a program for Floyd-Warshall algorithm.
9. Write a program for traveling salesman problem.
10. Write a program for Hamiltonian cycle problem.



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Course Educational Objectives (CEOs):

The student will have ability to:

1. Understand the general overview of the concepts and fundamentals of computer networks.
2. Understand the various components required to build different networks.
3. Familiarize the students with the standard models for the layered approach to communication between machines in a network and the protocols of the various layers.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

The students will be able to

1. Understanding basic computer network technology.
2. Understand the functions of each layer in the OSI and TCP/IP reference model.
3. Obtain the skills of subnetting and routing mechanisms
4. Familiarity with the essential protocols of computer networks, and how they can be applied in network design and implementation.

Syllabus:

UNIT I

9HRS

Introduction: Importance of Computer Networks, Classifications & Types. Layered Architecture: Protocol hierarchy, Interfaces and Services, Connection Oriented & Connection less Services, ISO- OSI Reference Model, TCP/IP model overview, comparison of TCP/IP and ISO-OSI reference model.



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UNIT II

9HRS

Data Link Layer & MAC Sublayer: Need, Services Provided, Design issues, Elementary data link protocols: simplex protocol, A simplex stop and wait protocol for an error-free channel, A simplex stop and wait protocol for noisy channel. Sliding Window protocols: A one-bit sliding window protocol, A protocol using Go-Back-N, A protocol using Selective Repeat, MAC Addressing, Binary Exponential Back-off (BEB) Algorithm, Distributed Random Access Schemes/Contention Schemes: for Data Services (ALOHA and Slotted- ALOHA), CSMA, CSMA/CA, CSMA/CD.

UNIT III

9HRS

Network Layer: Need, Services Provided, Design Issues, Routing Algorithms and types of Routing Algorithm, IPv4, IPv6, Classful and classless Addressing, Subnetting, Supernetting.

UNIT IV

10HRS

Transport Layer: Need, Design Issues, Multiplexing and Demultiplexing, transport layer services, UDP, UDP Header Format, Principles of reliable data transfer, TCP, Connection Management, TCP Flow Control, TCP Congestion Control, TCP Header Format, TCP Timer Management, SCTP.

UNIT V

8HRS

Session layer: Overview, Authentication, Session layer protocols, **Presentation layer:** Overview, Data conversion, Encryption and Decryption, Presentation layer protocols (LPP, Telnet, X.25 packet Assembler/Disassembler), **Application Layer:** Domain name system, SNMP, Electronic Mail; the World WEB, HTTP, FTP.

Textbook:

1. Andrew S Tanenbaum, Computer Networks, 6th Edition, Pearson Education, 2016.



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References:

1. Behrouz A.Forouzan, TCP/IP-Protocol suite, 4th edition, McGraw-Hill, 2010.
2. William Stallings, Data and Computer Communication, 10th edition Pearson, 2014.
3. Comer, Internet working with TCP/IP Volume one, Addison-Wesley, 2015.
4. W. Richard Stevens, TCP/IP Illustrated, Volume 1, 2nd Edition Addison-Wesley Professional Computing Series.

List of Experiments:

1. Demonstrate Different Types of Network Equipment's.
2. Color coding standard of CAT 5, 6, 7 and crimping of cable in RJ-45.
3. LAN installations and Configurations.
4. Experiment with basic Network configuration commands.
5. Write a program for error detection and correction technique.
6. Write a program for framing.
7. Write a program for routing algorithm.
8. Socket Programming.
9. Study about different network simulators.
10. Establish and simulate peer to peer network using packet tracer.
11. Simulate LAN using hub and switch and discuss pros and cons of hub.
12. Router configuration using packet tracer.



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| | | | THEORY | | | PRACTICAL | | | | | |
| | | | END SEM University Exam | Two Term Exam | Teachers Assessment * | END SEM University Exam | Teachers Assessment * | | | | |
| BTDSE410N | DSE | Fundamental of Information Security | 60 | 20 | 20 | 0 | 0 | 2 | 0 | 2 | 3 |

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks

Course Educational Objectives (CEOs):

Student will have ability:

1. Understand fundamentals of Information Security.
2. Understand the social impact of Information Security.
3. Understand the security parameters of Information.
4. Understand various techniques used to provide security.

Course Outcomes (COs):

Students will be able:

1. To understand the basics of Information Security.
2. To understand the basics of DBMS Security.
3. To understand the basics of Operating System Security
4. To understand the security policies in networks.
5. To understand impact of Information Security Services in Virtual World.

SYLLABUS

UNIT I

10 HRS

Overview of Information Security: Introduction, Critical Characteristics of Information, Principles of Information Security: Confidentiality, Integrity, and Availability; Security violation and threats; Assumptions and Trust; Security Assurance, Implementation and Operational Issues; Security Life Cycle.



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| BTDSE410N | DSE | Fundamental of Information Security | 60 | 20 | 20 | 0 | 0 | 2 | 0 | 2 | 3 |

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UNIT II

9HRS

Access Control Models: Discretionary, mandatory, roll-based, and task-based models, unified models, access control algebra, temporal and spatio-temporal models. **Security Policies and Standards:** Confidentiality policies, integrity policies, hybrid policies, non-interference and policy composition, international standards.

UNIT III

8HRS

Security Systems Design: Design principles, representing identity, control of access and information flow, confinement problem. **Security Assurance:** Building systems with assurance, formal methods, evaluating systems.

UNIT IV

8HRS

Malicious logic, vulnerability analysis, auditing, intrusion detection. Applications: Network security, operating system security, user security, program security. Data privacy and security, introduction to digital forensics, enterprise security specification.

UNIT V

7HRS

Case Study: Operating Systems Security: Security Architecture, Analysis of Security in Linux/Windows. Database Security: Security Architecture, Enterprise security, Database auditing.

Textbooks:

1. Security Engineering, Ross Anderson.
2. Computer Security: Art and Science, M. Bishop, Pearson Education.
3. Information Security: Principles and Practice, M. Stamp.



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References:

1. Security in Computing, C.P. Pfleeger, S.L. Pfleeger, J. Margulies.
2. Secure Programming HOWTO, David Wheeler.
3. Browser Security Handbook, Michael Zalewski.
4. Handbook of Database Security, M. Gertz, S. Jajodia.

List of Practical:

1. Study of different wireless network components and features of any one of the Mobile Security Apps.
2. Study of the features of firewall in providing network security and to set Firewall Security in Windows.
3. Steps to ensure Security of any one web browser (Mozilla Firefox/Google Chrome).
4. Study of different types of vulnerabilities for hacking websites/Web Applications.
5. Analysis of the Security Vulnerabilities of E-commerce services.
6. Analysis of the security vulnerabilities of E-Mail Applications.
7. Study of Network Security fundamentals - Ethical Hacking, Social Engineering practices.
8. Analysis of the Sniffing and Spoofing tools and attacks.
9. Study of Web-Based Password Capturing.
10. Study of the Anti-Intrusion Technique.



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| BTICS408N | SEC | Ethical Hacking Lab-I | 0 | 0 | 0 | 30 | 20 | 0 | 0 | 4 | 2 |

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Course Educational Objectives (CEOs):

The student will have ability:

1. To understand the different Vulnerabilities in network and system.
2. To learn different Tools and Technique to Hack into the System.

Course Outcomes (COs):

Upon completion of the subject, students will be able to:

1. Understand Security Architecture.
2. Understand Vulnerability assessment Technique.
3. Summarize tools and techniques to carry out a penetration testing.
4. Interpretation of intruders escalating privileges.
5. Apply the techniques for real world problems in the domain.

Syllabus:

UNIT I Security Architecture:

10HRS

Computer Security Concepts, The OSI Security Architecture, Security Attacks, Security Services, Security mechanism, Fundamental Security Design Principles, Attack Surface and Attack trees, A Model for Network Security. Introduction to Cybercrime, Cybercrime and Information Security, Classification of Cybercrimes.



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UNIT II Vulnerability Assessment:

9HRS

Casing the Establishment: What is foot printing, Internet Foot printing, Scanning, Enumeration, basic banner grabbing, Enumerating Common Network services .Use of NMAP Tool. Case study: Network Security Monitoring. Securing permission: Securing file and folder permission, Using the encrypting file system, Securing registry permissions. Securing service: Managing service permission, Default services in windows 2000 and windows XP. UNIX: The Quest for Root, Remote Access vs Local access, Remote access, Local access, after hacking root.

UNIT III Attack Plan:

8HRS

Introduction to Cyber offence, How Criminal plan the attack, Social Engineering, Cyber stalking, Cybercafé and cybercrime, Botnets: The fuel of cybercrime, Attack vector, cloud computing. Cybercrime: Mobile and Wireless devices, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Security Challenges Posed by Mobile Devices, Registry Setting for Mobile Devices, Authentication Service Security, Attack on Mobile Phones.

UNIT IV Penetration Testing:

8HRS

Malware threats, penetration testing by creating backdoors Tools and Methods Used in Cybercrime, Proxy Server and Anonymizers, Phishing and Identity Theft, Password Cracking, Keylogger and Spyware, Virus and Worms, Trojan Horse and Backdoors, Steganography DoS and DDoS Attacks, SQL Injection, Buffer Overflow, Attack on Wireless Networks. Use of Tool Nessus

UNIT V Hacking Techniques:

7HRS

Dial-up, PBX, Voicemail and VPN hacking, Preparing to dial up, War-Dialing, Brute-Force Scripting PBX hacking, Voice mail hacking, VPN hacking, Network Devices: Discovery Autonomous System Lookup, Public Newsgroups, Service Detection, Network Vulnerability, Detecting Layer 2 Media.



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Textbooks:

- 1.“Cryptography and Network Security”, William Stallings, 2nd Edition, Pearson Education Asia
- 2.Stuart McClure, Joel Scambray and Goerge Kurtz, Hacking Exposed 7: Network Security Secrets & Solutions, Tata McGraw Hill Publishers, 2010.
- 3.Bensmith, and Brian Komer, Microsoft Windows Security Resource Kit, Prentice Hall of India, 2010.

References:

- 1.Cryptography And Network Security Principles And Practice Fourth Edition, William Stallings, Pearson Education
2. Modern Cryptography: Theory and Practice, by Wenbo Mao, Prentice Hall PTR
3. Network Security Essentials: Applications and Standards, by William Stallings. Prentice Hall
4. Cryptography: Theory and Practice by Douglas R. Stinson, CRC press.
- 5.“Building Internet Firewalls”, Elizabeth D. Zwicky, Simon Cooper, D. Brent Chapman, 2nd Edition, Oreilly.
- 6.<http://nptel.ac.in/>
- 7.Stuart McClure, Joel Scambray and Goerge Kurtz, —Hacking Exposed Network Security Secrets & Solutions, 5th Edition, Tata McGraw Hill Publishers, 2010.
8. RafayBaloch, —A Beginners Guide to Ethical Hacking.
9. Allen Harper, Shon Harris, Jonathan Ness, Chris Eagle, —Gray Hat Hacking The Ethical Hackers Handbook, 3rd Edition, McGraw-Hill Osborne Media paperback (January 27, 2011)



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List of Experiments:

1. Installation of Kali Linux.
2. Introduction to NMAP Tool.
3. Basic NMAP Feature.
4. Host discovery using NMAP
5. Vulnerability assessment: Using Nessus.
6. Malware threats, penetration testing by creating backdoors.
7. Study of tools for Packet sniffing.
8. Creating Virus for different systems.
9. Study of Password cracking tools.
10. Basic Future of Nessus.
11. Hacking wireless networks
12. Hacking into System through Vulnerability.