



SPHOORTHY ENGINEERING COLLEGE (UGC AUTONOMOUS)

Department of Cyber Security

Lesson Plan A.Y. 2025-26

Course Name: Web & Database Security

Faculty Name: J. Naresh Kumar

YEAR & SEM: IV YEAR & I-SEM

S.NO	Unit No	Date	Topic	No. of Periods	Methodology	Cumulative Periods
1	UNIT 1		The Web Security	1	Chalk & Talk	1
2	UNIT 1		The Web Security Problem	1	Chalk & Talk	2
3	UNIT 1		The Web Security Problem	1	Chalk & Talk	3
4	UNIT 1		Risk Analysis and Best Practices	1	Chalk & Talk	4
5	UNIT 1		Cryptography and the Web	1	Chalk & Talk	5
6	UNIT 1		Cryptography and the Web	1	Chalk & Talk	6
7	UNIT 1		Cryptography and Web Security	1	Chalk & Talk	7
8	UNIT 1		Working Cryptographic Systems and Protocols	1	Chalk & Talk	8
9	UNIT 1		Working Cryptographic Systems and Protocols	1	Chalk & Talk	9
10	UNIT 1		Legal Restrictions on Cryptography	1	Chalk & Talk	10
11	UNIT 1		Legal Restrictions on Cryptography	1	Chalk & Talk	11
12	UNIT 1		Digital Identification	1	Chalk & Talk	12
13	UNIT 2		UNIT 2: The Web's War on Your Privacy	1	Chalk & Talk	13
14	UNIT 2		Privacy-Protecting Techniques	1	Chalk & Talk	14
15	UNIT 2		Privacy-Protecting Techniques	1	Chalk & Talk	15
16	UNIT 2		Backups and Antitheft	1	Chalk & Talk	16
17	UNIT 2		Backups and Antitheft	1	Chalk & Talk	17
18	UNIT 2		Web Server Security	1	Chalk & Talk	18
19	UNIT 2		Physical Security for Servers	1	Chalk & Talk	19
20	UNIT 2		Physical Security for Servers	1	Chalk & Talk	20
21	UNIT 2		Host Security for Servers	1	Chalk & Talk	21
22	UNIT 2		Host Security for Servers	1	Chalk & Talk	22
23	UNIT 2		Securing Web Applications	1	Chalk & Talk	23
24	UNIT 2		Securing Web Applications	1	Chalk & Talk	24
25	UNIT 3		UNIT 3: Database Security	1	Chalk & Talk	25
26	UNIT 3		Recent Advances in Access Control	1	Chalk & Talk	26
27	UNIT 3		Recent Advances in Access Control	1	Chalk & Talk	27
28	UNIT 3		Access Control Models for XML	2	Chalk & Talk	28
29	UNIT 3		Access Control Models for XML	1	Chalk & Talk	29
30	UNIT 3		Database Issues in Trust Management and Trust Negotiation	1	Chalk & Talk	30
31	UNIT 3		Database Issues in Trust Management and Trust Negotiation	1	Chalk & Talk	31
32	UNIT 3		Database Issues in Trust Management and Trust Negotiation	1	Chalk & Talk	32
33	UNIT 3		Security in Data Warehouses and OLAP Systems	1	Chalk & Talk	33
34	UNIT 3		Security in Data Warehouses and OLAP Systems	1	Chalk & Talk	34
35	UNIT 4		UNIT 4: Security Re-engineering for Databases:	1	Chalk & Talk	35
36	UNIT 4		Security Re-engineering for Databases:	1	Chalk & Talk	36
37	UNIT 4		Concepts and Techniques	1	Chalk & Talk	37

S.NO	Unit No	Date	Topic	No. of Periods	Methodology	Cumulative Periods
38	UNIT 4		Database Watermarking for Copyright Protection	1	Chalk & Talk	38
39	UNIT 4		Database Watermarking for Copyright Protection	1	Chalk & Talk	39
40	UNIT 4		Trustworthy Records Retention	1	Chalk & Talk	40
41	UNIT 4		Trustworthy Records Retention	1	Chalk & Talk	41
42	UNIT 4		Damage Quarantine and Recovery in Data Processing Systems	1	Chalk & Talk	42
43	UNIT 4		Damage Quarantine and Recovery in Data Processing Systems	1	Chalk & Talk	43
44	UNIT 4		Hippocratic Databases:	1	Chalk & Talk	44
45	UNIT 4		Current Capabilities and Future Trends	1	Chalk & Talk	45
46	UNIT 4		Current Capabilities and Future Trends	2	Chalk & Talk	46
47	UNIT 5		UNIT 5: Privacy in Database Publishing: A Bayesian Perspective	1	Chalk & Talk	47
48	UNIT 5		Privacy in Database Publishing: A Bayesian Perspective	1	Chalk & Talk	48
49	UNIT 5		Privacy-enhanced Location based Access Control	1	Chalk & Talk	49
50	UNIT 5		Privacy-enhanced Location based Access Control	1	Chalk & Talk	50
51	UNIT 5		Efficiently Enforcing the Security	1	Chalk & Talk	51
52	UNIT 5		Efficiently Enforcing the Security	1	Chalk & Talk	52
53	UNIT 5		Privacy Policies in a Mobile Environment	1	Chalk & Talk	53
54	UNIT 5		Privacy Policies in a Mobile Environment	1	DISCUSSIONS	54
<div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <div style="width: 30%;">Signature of Hod of The Dept</div> <div style="width: 30%;">Course Coordinator</div> <div style="width: 30%;">Faculty Signature</div> </div>						