



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
CPCL702	Cryptography and System Security Lab	--	--	2	--	--	1	1	
		Examination Scheme							Total
		ISE		ESE		Total			
				Practical	Oral				
		40	-	20	60				

Pre-requisite Course Codes	CPC702(Cryptography and System Security)	
At end of successful completion of this course, student will be able to		
Course Outcomes	CO1	Understand working of Public key Cryptographic technique.
	CO2	To develop and Secure any application using different methods
	CO3	To implement different session hijacking techniques
	CO4	To analyze different SQL injection attacks on application

Exp. No.	Experiment Details	Ref.	Marks
1	Simulation of RSA algorithm.	1,3	5
2	Implement MD5 algorithm	1,3,4	5
3	Implement Blowfish attack.	1,3,4	5
4	Simulation of Deffie-Hellman key exchange algorithm.	1,4	5
5	Implement Pretty Good Privacy (PGP) security method.	1,3,4	5
6	Implement SSL web security method.	1,2,4	5
7	Simulation of session Hijacking attack.	1,3,4	5
8	Simulation of SQL injection	1,3,4	5
Total Marks			40

References:

- [1] [1] William Stallings, "Cryptography and Network Security: Principles and Practice", Pearson, 5th edition.
- [2] Bernard Menezes, "Network Security and Cryptography", Cengage Learning, 2nd edition.
- [3] Behrouz A Fourouzan, DebdeepMukhopadhyay, "Cryptography and Network", TMH, 2nd edition.
- [4] Behrouz A. Forouzan, "Cryptography and Network Security", TMH
- [5] Charles P. Pfleeger, "Security in Computing", Pearson Education.
- [6] Matt Bishop, "Computer Security Art and Science", Addison-Wesley.