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
TEITL603	System and Web Security Lab	-	-	2	-	-	1	1

Course Code	Course Name	Examination Scheme			
		ISE	ESE		Total
			Practical	Oral	
TEITL603	System and Web Security Lab	40	-	20	60

Pre-requisite Course Codes	IT35 (Information Theory and Coding) TEITC603 (System and Web Security)

After successful completion of the course, student will be able to:

	CO1	Interpret the concepts of security
	CO2	Illustrate the network vulnerability scanning process
	CO3	Experiment different attacks involved in network
	CO4	Illustrate attacks involved in web security
	CO5	Experiment the method to do forensics analysis on data

Exp. No.	Experiment Details	Ref.	Marks
1.	Foot printing a target network	1,5,7	5
2.	Scanning a network using A. Nmap Network Mapper B. Nessus vulnerability scanner	1,5,7	5
3.	Exploit Windows vulnerability to get unauthorized access	1,5,4,7	5
4.	*Exploiting Client side vulnerabilities and establishing a VNC session*	1,5,7	5
5.	Performing Man -in-the-Middle Attack using Wireshark & Etercap	5,7	5
6.	A. Creating a Trojan using Social-Engineer Toolkit B. Implementing DoS attack - SYN flooding a target host using hping3	5,7,2,3	5
7.	Performing SQL injection A. Manual SQL Injection, John the Ripper B. Automate SQL Injection with Sql Map	6	5
8.	Digital forensics (content beyond syllabus)	5	5
	Total Marks		**40**

References:

1. William Stallings,"*Computer Security Principles and Practice*", Pearson Education.
2. Charles P. Pfleeger ,"*Security in Computing*", Pearson Education.
3. Dieter Gollman ,"*Computer Security*", 3rdEdition, Wiley India.
4. Behrouz A. Forouzan ,"*Cryptography and Network Security*", TATA McGraw hill.
5. Mark Stamp," *Information security Principles and Practice*", Wiley publication
6. OWASP TOP 10: https://www.owasp.org/index.php/Top_10_2013
7. Eric Cole,"*Network security bible*", 2nd edition,Wiley India.