

 SANKALCHAND PATEL UNIVERSITY ॥ अथातो ज्ञानजिज्ञासा ॥	Faculty of Engineering and Technology Master of Technology (Semester II / First year) In Effect from Academic Year 2023-24
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Branch Name:	CYBER SECURITY
Program Code:	ET207
Course Title:	Overview of Social Media and its Security Practical
Course Code:	2ET2070207P
Pre-requisite Course:	The main objective of this practical session is that students will get the exposure to various cyber security knowledge and tools.

Course Objectives:

The objective of this course is to learn and develop a comprehensive understanding of social security and unique security challenges.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	L	T	P	Total	SEE		CCA		SEE		CCA		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

Course Contents:

Unit	Details	Contact Hours
1	1. Create a social networking website login page using phishing techniques 2. Perform Browser history analysis and get the downloaded content , history ,saved logins, searches ,websites visited etc using Foxton Forensics tool, Dumpzilla	8
2	1. Perform information for incident response using the crowd Response tool 2. Perform data analysis i.e history about open file and folder, and view folder actions using last view activity tool 3. Perform port scanning on Metasploitable 2 vulnerable VM	8
3	1. Perform Disk imaging and cloning the using the X-way Forensics tools 2. Perform memory capture and analysis using the live ram capture or any forensic tool 3. Configure FTP on Linux Server. Transfer files to demonstrate the working of the same.	8
4	1. Perform email analysis using the tools like Exchange EDB viewer , MBOX viewer and View user mailboxes and public folders , Filter the mailbox data based on various criteria, Search for particular items in user mailboxes and public folders 2. Techniques to stop web crawler 3. Write a case study how the social security build were generated and implemented	8

Reference Books:

- Editors: Altshuler, Y., Elovici, Y., Cremers, A.B., Aharony, N., Pentland, A. (Eds.) Interdisciplinary Impact Analysis of Privacy in Social Networks L T P C 3 0 0 3 Page 17 of 44 Recognizing Your Digital Friends Encryption for Peer-to-Peer Social Networks Crowdsourcing and Ethics
- Security and privacy protection in information processing systems by Lech J. Janczewski, Henry B .Wolfe, Sujeet Sheno

Course Outcomes:

At the end of the course, students will be able to:

Course Outcomes	Description	Bloom's Taxonomy Level
CO1	Students will get the knowledge in detection ,protection of Intrusions ,malicious codes	Understanding (2)
CO2	Learn how to find data that may be clear or hidden on a computer disk, find out the open ports for the attackers through network analysis , Registry analysis	Understanding (2)
CO3	Gain knowledge in performing fraud detection by data analysis using different tools.	Applying (3)
CO4	Formulate reasons for using data analysis to detect fraud	Applying (3)

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3	PS O4
CLO1	H	M	M		M											
CLO2	H	M			M							L				
CLO3	H	M	M		M											
CLO4	M	M	M		M							L				

H: High, M: Medium, L: Low