

 SANKALCHAND PATEL UNIVERSITY ॥ अथातो ज्ञानजिज्ञासा ॥	Faculty of Engineering and Technology Master of Technology (Semester I / First year) In Effect from Academic Year 2023-24
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Branch Name:	CYBER SECURITY
Program Code:	ET207
Course Title:	Mobile Security and Forensics Practical
Course Code:	2ET2070106P
Pre-requisite Course:	Basics and important terminology of the mobile devices.

Course Objectives:

Introduction to various platforms of mobile devices and its analysis in a forensically manner.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								Total (Marks)
					Theory (Marks)				Practical (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. Installation of Android Studio 2. Working on Open source android forensic tool kit (OSAF-TK)	8
2	1. Santoku Linux 2. Andriller and other tools	8
3	1. Extraction of mobile data using Oxygen forensic suit 2. Physical Extraction of Data from mobile device using UFED Touch	8
4	1. Analyzing data of android mobile using MOBILedit 2. Analyzing android device using autopsy forensic tool	8

Reference Books:

1. Practical Mobile Forensic by Satish Bommisetty, Rohit Tamma and Heather Mahalikunder Packet Publishing
2. <https://www.electronics-notes.com/articles/connectivity/cellular-mobilephone/how-cellphone-works-inside-components.php>

Course Outcomes:

Course Outcomes	Description	Bloom's Taxonomy Level
CO1	Different types of acquisition methods on various platforms.	Understanding (2)
CO2	Internal working structure of the various mobile platforms.	Understanding (2)
CO3	Data recovery techniques and Data extraction techniques on various mobile platforms.	Applying (3)

CO4	Different forensic tools that are used for various mobile platforms.	Applying (3)
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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