1	Dates	
2	End Module	
	Assessment	
3	Lab	
	Assessment	
4	Evaluation	T - Theory
	Details	L - Lab
		A - Assignments / Mid module Evaluations

Centre for Development of Advanced Computing Software Training and Development Centre (Kochi & Thiruvananthapuram)								
PG - DCSF Feb 2025								
WEEK	MODULE NAME	DURATION (120 Hours)			ırs)	EVALUATION DETAILS		
		THEORY		LAB	REVISION	EVALUATION DETAILS		
	Cyber Forensics	56 Hours	6	0 Hours	4 Hours	60 Marks (20 T + 20 L + 20 A)		
	SCHEDULE							
Date	Theory Session (09:30 AM to 01: 00 PM)			Lab Session (02:00 PM to 06:00 PM)				
	Data Acquisition							
	Data Storage	Fundamentals						
	Introduction to	roduction to Cyber Crimes			Seizing data with Forensic			
	Cyber Forensi	ics Principles		• Seiz	C			
	Digital Evider	nce Seizure		Haro	lware and Softw	are	e	
	• Forensic Hard							

Cyber Forensics Analysis Windows File System – FAT and NTFS Linux File System Cyber Forensics Analysis Disk Forensics	 Familiarizing file system concepts Tools – Disk Explorer, Win-Hex, Nfi, Lads, Autopsy
 Disk Forensics Analysis Partitioning Registry File Carving Windows Analysis 	
 Browser Event log Prefetch Volume Shadow Copy Recycle Bin Client based Email Analysis Page file Hibernation Meta Data 	Disk Analysis using CyberCheckSuite (3hrs), Magnet Axiom,

o Spool files		
o Link Files		
o Reparse Point		
Linux Analysis		
Live Forensics		
 Live Forensics Live seizing and acquisition Live forensic analysis 	• Win-LiFT	
 Memory Forensics Memory Dumping Memory Analysis 	 Analysis of Live Artifacts – DumpIt, , Volatility, Magnet Axiom 	
Network Forensics Network Packet Capturing, Monitoring and Analysis	NeSa, WireShark	

 Mobile Phone Forensics Mobile Phone Forensics Sim Card Forensics Call Data Record Analysis 	 Analysis of Mobile Phone Artifacts – MobileCheck, Sim Xtractor, Cellbrite, CDR analyzer
 Malware Analysis and Reverse Engineering Malwares Classification Recent trends in malwares Setting up a malware analysis lab Dynamic/Behaviour based analysis of malware samples Working with Fileless malwares Analyzing a malware infected host Analyzing memory resident malware Process Injection Techniques Basic static analysis 	Analysis of Malware Artifacts — Autorun, Procmon, Mitre, Regshot, Bintext, IDAPro, Volatility
 IoT Forensics Protocols and File Systems Storage and interfaces File systems Multimedia Analysis 	IoT Forensics with Open Source Tools

GPS Tracking	
Wi-Fi Cracking	
Security Challenges	