

Lesson Plan

Name of Faculty : Dr. Manju Devi, A.P of CSE
Discipline : CSE
Semester : 8th (EVEN)
Subject : Digital Forensics (PEC-CSE417-T/ PEC-IT406-T)
Work Load (Lecture/Practical) per week (in hours): Lectures-03hours.

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1	Introduction to Digital Forensics: digital crimes,			
	2	digital investigation, evidence, extraction, preservation etc.			
	3	overview of hardware and operating systems			
2 nd	4	structure of storage media/devices,			
	5	Windows/Macintosh/Linux- registry, boot process;			
	6	disk and file system analysis			
3 rd	7	data acquisition of physical storage devices.			
	8	Data recovery: identifying hidden data, recovering deleted files;			
	9	digital evidence controls: uncovering attacks that evade detection by event viewer,			
4 th	10	Assignment 1st			
	11	task manager and other windows GUI tools;			
	12	disk imaging, recovering swap files,			
5 th		1st Minor Test			
6 th	13	temporary and cache files;			
	14	automating analysis and extending capabilities.			
	15	Network Forensics: collecting			
7 th	16	nalyzing network-based evidence,			
	17	reconstructing web browsing,			
	18	email activity			
8 th	19	intrusion detection,			
	20	tracking offenders,			
	21	windows registry changes, etc.;			
9 th		2nd Minor Test			
10 th	22	Mobile Network forensics: introduction, investigations,			
	23	collecting evidences, where to seek digital data for further investigations;			
	24	Assignment 2nd			
11 th	25	Email and database forensics;			
	26	memory acquisition.			
	27	Computer crime and legal issues			
12 th	28	Intellectual property, privacy issues,			
	29	Criminal justice systemfor forensic			
	30	audit/investigative situations			
13 th	31	digital crime scene			
	32	investigative procedure/standards for extraction			
	33	preservation and deposition of legal evidence in a court of law.			
14 th		3rd Minor Test			