## **Cyber Crime**

Definition: - criminal / illegal activity - involves unlawful access to - committed on internet - steals data/information	o computer system	Example: - Stealing credit card information - Breaking into government website			
1 <sup>st</sup> cybercrime:  - France, 1820  - person details:  Name: Joseph Manie  Job; textile engineering		1 <sup>st</sup> spam email - 1978	1 <sup>st</sup> virus: - Installed - 1982	n Apple Computer	
Device as Category	Category of Cyber Crimes  Device as		Cause	Characteristics	
Use computer to attack another one  Ex: Hacking, virus attacks	Weapon (Device as)  Use computer to commit real world crime  Ex: cyber terrorism, credit card fraud	4 victims  Crime Against  1) Individual 2) Property 3) Organization 4) Society at Large	<ol> <li>Cyber war</li> <li>Money income / Financial gain</li> <li>Take revenge / insider threats</li> <li>Political Campaign</li> <li>Having fun</li> <li>Recognition and achievement</li> </ol>	<ol> <li>Easy access to system</li> <li>24/7 opportunity to do crime</li> <li>Less risk and cost</li> <li>More profit</li> <li>Can't detect criminal's location easily</li> <li>Proof of crime – damaged easily</li> <li>Can do crime internationally</li> <li>Can hide/fake own identity</li> </ol>	

## Prevention:

Cyber Laws in Pakistan:	Safety tips:	Cyber Security:		
a) Electronic Transaction Ordinance 2002:  - 1st IT Law (now not applicable) - Protects Pakistani E- commerce - Protects Pakistan's critical infrastructure - Taken from foreign law  b) Electronic/Cyber Crime Bill 2007 - Promoted by the president of Pakistan - Applicable from 31 December 2007 - Deals with: 1) Cyber terrorism 2) Data damage 3) Electronic fraud 4) Spoofing 5) Unauthorized access to code - Punishment: globally and locally giver 1) Imprisonment 2) Fine - Responsible: FIA (Federal Investigation Investigate and charge case	3) Uninstall unnecessary software 4) Maintain backup 5) Check security settings 6) Never give information to strangers 7) Learn more about internet privacy	<ul> <li>Branch of computer security</li> <li>Related to internet</li> </ul> Objective: <ul> <li>Establish rules to use against attack over the internet</li> </ul> Advantages: <ul> <li>Save from critical attacks</li> <li>Safe browsing</li> <li>Secure incoming/outgoing data processing</li> </ul>		

## Different types of cyber-crimes (and how done):

Virus Dissemination (Spreading)	Computer vandalism	Blackmailing	Financial Crime	Credit Card Fraud	Cyber Pornography	Spoofing	Email Spoofing	Cyber terrorism
<ul><li>What is virus?</li></ul>	Def: Damaging/destroying data by	Taking Control of FB account	giving attractive	For personal reasons, an	Pornographic pictures,	Send fake mail	Def: A spoofed email is one	Def: intentional use of computers,
<ul> <li>Malicious software that</li> </ul>	transmitting virus rather than stealing	by sending phishing link or	advertising on the	individual uses another	photos, and writings (by		in which e-mail header is	networks, and public internet to
attaches itself to another		after mobile lost/theft and	website or enticement	individual's credit card	exchange of money)	Done by faking/hiding	forged so that mail appears	cause destruction and harm for
software		demand money.	by email or social			identity	to originate from one source	personal objectives.
Solution:	Prevention:		media	The <mark>owne</mark> r of the credit card and	Online Service		but actually has been sent	
<ol> <li>Keep regular backup of</li> </ol>	Not giving permission to software	Defacing by Photoshop or		the card issuer are		Ask to provide sensitive	from another source	Purpose of using social media:
important files	without reading the agreement	other editing tools and posted	➤ Electronic Card Fraud	unaware of the fact	Li <mark>ve Video Ch</mark> at	<mark>dat</mark> a		Motivation
<ol><li>Be careful about opening</li></ol>		in social media/YouTube and						Recruitment
email attachment		blackmailing.	➤ Visa Processing fraud	Occurs in		Find personal/financial		Training
3) Be careful of attachments				<ul> <li>Online banking</li> </ul>		details		Fund Collection
that has .exe, .vbs,. scr, .vbe,	Software piracy	Mostly committed by the		<ul> <li>Online shopping</li> </ul>	S <mark>extortion</mark>		<mark>Hackin</mark> g	Claim of attack
.dll, .pif, .drv, .bin, .nws, .bat,		young to take revenge after				3 ways:		
.ocx, .shs etc file extension.	Def: Theft of software through illegal	breaking up relations.		Solution:	manages to get nude pic or	<ol> <li>Email spoofing</li> </ol>	Def: Unauthorized access to	
	copying of genuine programs			1) One can't use others credit	video of victim	2) I <mark>P s</mark> poofing	computer system by a hacker	Prevention Law:
				card because of		3) Fake identity		1) Punishment: 7 Iranians work
				<ul> <li>a) Mobile security code</li> </ul>	demands money		3 types of hackers:	for their govt
	Cause: not using original software			b) 2 step verification		Solution:	1) White hat hackers	Reason: Hacking
	(costly)			2) Ethical conduct		1) Keeping computer	2) Black hat hackers	
				- Enforced by bank	Spreading <mark>hate speech</mark>	system updated	3) Gray hat hackers	2) Punishment: sent to jail
	Prevention: serious attempt taken by			authority	- Attacking	2) Using a good		Place: Rawalpindi
	the organization against the people				political/religious	antivirus software		Reason: blackmailing on
	involved in the distribution of pirated				ideology	3) Don't open the		social media
	software				lueology	mail from		
					target: communal riot	unknown sender		
					target. Communar not	4) Ignore mails that		
					Hate speech to any	has		
					community	- No sender names		
					Community	- Y <mark>our name in</mark>		
						sender details		