BCA308	Cyber Ethics
Teaching Scheme	Examination Scheme
Lectures: 1 hr/Week	
Tutorials: 1 hr/Week	Class Test – 6 Marks Teachers Assessment – 3 Marks
Credits: 2	Attendance – 6 Marke
Credits. 2	End Semester Exam – 35 Marks
Prerequisite: Data Networks, Network Security	
Course Objectives:	
The course intends to	
1. Introduce concepts of cyber-security.	
2. Discuss about threats and solutions proposed.	
3. Illustrate the values and value conflicts in cyberse	ecurity.
4. Differentiate between ethical and unethical hacking	ng
Detailed Syllabus:	
Unit-1	
Basic concepts and models of cyber-securi	ity: Introduction to cybersecurity, system security
and the state of allack and u	lefense: Attackers and their motives, defenses, Stages
	defenses, stage
Unit-2	
threats and solutions: Threats and solutions in	n Data security, Case Study- Secure HTTP Malwa
and solutions. Hopagation and Denvery	Payloads countertheogeness Theorem 1 1
South and Socurity. Case Bludy-Duffer Overnows	Lase Mudy Soll Injections Finding 11 11
unication in the solutions in Networ	rk Security: Case Study: Denial of Service Attac
Continuous Testing	
Unit-3	
Core values and Value conflicts in cybersecurit	ty: introduction, what are values? value clusters, va
clusters in cybersecurity: security, privacy, fairne	ss. accountability Value conflicts? Value conflict
ybersecurity, privacy vs. security, privacy vs	s. fairness, privacy vs. accountability, security
ccountability, Security vs. privacy (and democracy	() (i) accountability, security
Jnit-4	
Cthical and Unethical hacking: What actually is	s a hacker, hackers in early days vs. modern hacke
axonomy for hackers' classification: based on exp	pertise and legal goals, Inethical, Unethical and Ethi
lacking, Competing ethical values	
Reference book:	
	Loi, The Ethics of Cybersecurity, The Internatio
Library of Ethics, Law and Technology boo	k series (ELTE, volume 21)
urse Outcomes:	
er completing the course, students will be able to:	
1. To recall and understand the basic concepts	
2. Demonstrate the threats applicable in variou	is domains of cyber security.
3. Explain conflicts in values applicable in cyb	per-security.
4. Enlist the differences between ethical hacking	ng and unethical hacking
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