

B.Com
Information Technology Syllabus
Semester II

Course prerequisites: Working knowledge of Computer and Internet
Course objectives: Develop an awareness and understanding of Cyber Security and its related aspects and how to take measures to protect individual privacy and prevent loss/theft of data.

Course contents: **Total: 60 Hours**

- I Basics of Computer Networking(10%):** **Marks :10 & Lectures 08**
Networking basics, why networking of computer is needed. Internet – role and importance. IP Addressing – public Vs Private, Static Vs Dynamic; WWW & related protocols;
- II Emerging threats in Cyber Space(20%):** **Marks :20 & Lectures 15**
Threats in Cyber Space, Classification of threats, BYOD and portable devices threats, 0-day attacks, insider threats, Cyber Warfare, Malware threats, mobile apps threats;
Social media and its safe usages: Social media- its usages, Social networking- types, usages, importance, social networking safety;
- III Online Privacy: (10 %)** **Marks :10 & Lectures 07**
Privacy – basic concepts, Sensitive personal information, Privacy policies, Google/Facebook privacy policies, Privacy laws, IPR, Ethics & safe practices
- IV Cyber Crimes – an introduction: (20 %)** **Marks :20 & Lectures 15**
Introduction – types of cyber crimes, its impact – social, personal, financial; Types of Cyber Crimes (Phishing, social engineering, Denial of Service, Cyber stalking, ID-theft, etc), Cyber Terrorism, How to report cyber crimes
- V Cyber Laws: (20 %)** **Marks :20 & Lectures 15**
Evolution and purpose, offence & defence, bailable and non-bailable offences, provisions related to e-commerce, provisions for cyber crimes, adjudicating officers, CERT-IN- its role and powers
- VI Cyber Forensic: (20 %)** **Marks :20 & Lectures 15**
Data recovery, evidence collection, cloning of devices, media sanitization

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Reference Books

1. Rick Lehtinen and G.T. Gangemi, Computer Security Basics, O'Reilly Media, Inc.: 2nd edition, 2006
2. Wall, David, (2007). Cybercrime: The Transformation of Crime in the Information Age. Polity Publishing
3. Michael Cross, Scene of the Cyber Crime, Syngress Publishing, Elsevier Publishing, 2nd Edition, ISBN 13: 978-1-59749-276-8
4. Chander, Harish, Cyber Laws and IT Protection, ISBN: 978-81-203-4570-6, PHI Learning

Web Resources:

1. www.cert.org
2. www.microsoft.com/security/
3. www.nist.gov
4. www.sans.org
5. www.us.cert.gov
6. http://en.wikipedia.org/wiki/List_of_cyber_attack_threat_trends.

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Information Technology Practical syllabus
Semester II

Practical No.	Topics	Hours
1.	Networking Basics <ul style="list-style-type: none"> • Connecting to Network • Sharing directories • Connecting to shares • Set up a common storage 	2 hours
2.	Advanced Networking <ul style="list-style-type: none"> • Identify IP address, ping • Set up a basic firewall • Setup a wireless n/w • Set up a security level • Setup free online backup 	4 hours
3.	Keeping laptop cyber secure	2 hours
4.	Keeping data storage devices cyber secure	2 hours
5.	Keeping smart phone cyber secure	2 hours
6.	Keeping online shopping cyber secure	2 hours
7.	Keeping wi-fi cyber secure	2 hours
8.	Keeping passwords cyber secure	2 hours
9.	Keeping social networking cyber secure	2 hours
10.	Keeping online banking cyber secure	2 hours
11.	Keeping laptop cyber secure	2 hours

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