

# Curriculum for Class XI

Topic	Subtopic	Theory	Practical
<b>Lesson 1: Information Security</b>	<p><b>1.1 <i>Information Security and Computer security</i></b></p> <ul style="list-style-type: none"> <li>• Confidentiality</li> <li>• Integrity</li> <li>• Availability</li> </ul> <p><b>1.2. <i>Security Threats</i></b></p> <ul style="list-style-type: none"> <li>• Errors and omission</li> <li>• Fraud and theft</li> <li>• Loss of physical and infrastructural support</li> <li>• Hackers and crackers</li> <li>• Malicious codes and software</li> </ul> <p><b>1.3. <i>Malicious programs</i></b></p> <p>1. Virus</p> <ul style="list-style-type: none"> <li>• Boot sector Virus</li> <li>• File infecting virus</li> <li>• Polymorphic Virus</li> <li>• Stealth Virus</li> <li>• Multipartite virus</li> </ul> <p>2. Other destructive programs</p> <ul style="list-style-type: none"> <li>• Worms</li> <li>• Trojan Horse</li> <li>• Logic Bomb</li> </ul> <p><b>1.4. <i>Affecting computer system</i></b></p> <ul style="list-style-type: none"> <li>• How virus spread</li> <li>• Protecting Computer system</li> </ul> <p><b>1.6. <i>Users Identification and authentication</i></b></p> <p>1. User Requirements</p> <ul style="list-style-type: none"> <li>✓ Finding passwords</li> <li>✓ Giving Passwords</li> <li>✓ Electronic Monitoring</li> <li>✓ Accessing password Files</li> </ul> <p>2. Users Possessions</p> <ul style="list-style-type: none"> <li>✓ Memory tokens</li> <li>✓ Smart tokens</li> </ul> <p>3. Biometric technique</p>	<b>3</b>	
<b>Lesson2: The internet and Privacy</b>	<p><b>2.1. <i>Understand terminology related to internet</i></b></p> <p>Apps and Applets Blog , Bookmark, Browser, Chat, Clickbait, Cookie, Cloud Computing, E-commerce, Flash, FTP, HTML, HTTP, , Instant message , IP address, WWW</p> <p><b>2.2. URL</b></p>	<b>2</b>	

	<ul style="list-style-type: none"> <li>• Structure of URL</li> <li>• Domain name</li> <li>• Domain Type</li> </ul> <p><b>2.3. Terms used in internet privacy</b>  Cyberbullying, Digital footprint, Tagging, Re-tweeting, Cyberstalking, Spamming, phishing, spoofing, Back door, card skimmer  Information and privacy – 2 sides of the same coin</p> <ul style="list-style-type: none"> <li>• Questions to consider before posting anything</li> </ul> <p><b>2.4. Protecting What Is Yours</b></p> <ul style="list-style-type: none"> <li>• Password(Strong password and weak password)</li> <li>• Tagging</li> </ul>		
Lab	<p><b>Tagging</b>  Sharing</p> <ul style="list-style-type: none"> <li>• Forwarding</li> <li>• Reply / Reply All / Bcc</li> <li>• Re-tweeting</li> <li>• Instagramming</li> </ul>		<b>1</b>
<b>Lesson 3: Social Media</b>	<p><b>3.1 Ease of expressing yourself in social media</b>  Characteristics of Social Media</p> <ul style="list-style-type: none"> <li>• social media impacts on various field of society (positive and negative ways) <ul style="list-style-type: none"> <li>✓ Education</li> <li>✓ Business</li> <li>✓ Society</li> <li>✓ Youngster</li> </ul> </li> </ul> <p>3.2. Netiquette( what does it mean to be respectful)</p>	<b>2</b>	
<b>Lesson 4 Cyber Crime</b>	<p>4.1. Cyber Crime</p> <ul style="list-style-type: none"> <li>• Categories of computer crime (with Examples)</li> </ul> <p>4.2. Online Harassment</p> <ul style="list-style-type: none"> <li>• Types of online harassment</li> <li>• Preventive Measures For Cyber Crimes:</li> </ul> <p>4.3. Cyber law of India</p>	<b>2</b>	
<b>Lesson5: The Emergence of E-Commerce</b>	<p><b>5.1 What is e-commerce</b></p> <ul style="list-style-type: none"> <li>• Basic steps in an e-commerce transaction</li> <li>• How e-commerce works</li> <li>• E-commerce and Apps</li> </ul> <p><b>5.2 Applications of e-commerce</b>  Financial services</p> <ul style="list-style-type: none"> <li>• Banking</li> </ul>	<b>1</b>	

	<ul style="list-style-type: none"> <li>● Retail</li> <li>● Convenience services (bill payment/ticket booking...etc)</li> <li>● Leisure and entertainment</li> </ul> <p><b>5.3 Safety in E-Commerce Transactions</b> Modes of payment</p>		
<b>Lab Session 1</b>	<ul style="list-style-type: none"> <li>● Simulating or carrying out an e-transaction <ul style="list-style-type: none"> <li>● buy a online shopping app</li> <li>● paying bill online ( electricity bills, Phone bills etc)</li> <li>● booking a tickets (Railway, bus, air,)</li> </ul> </li> </ul>		<b>1</b>
<b>Lesson 6: Being Future Ready</b>	<ul style="list-style-type: none"> <li>● The social, financial, political, commercial future of the online world</li> <li>● How you can be ready for it</li> </ul>	<b>1</b>	

Theory: 11 Practical:2