Title of the Course/ Paper	Subject Name	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	Understanding Internet	Skill enhancement	2	-	-	-	2	2	25	75	100

	Learning Objectives
LO1	To understand the concepts network
LO2	To learn various links in internet
LO3	To learn formatted images
LO4	To learn frames and its structures
LO5	To create various style sheets

UNIT	Contents	No. of Hours
I	Man and Machines - Human Capability of five senses to see, hear, smell, speak and act - Basic Structure of a Computer - Data - Characteristics of a Computer-History of Computers - - Classification of Computers	15
II	Application Software and Programming Languages - Application Software - Packaged Software Products (Off-the-Shelf Products) - Office Automation - Core Banking System - Enterprise Software Products – SAP - Sales Force – Oracle - CRM and ERP - Early High Level Programming Languages - Translators (Compilers and Interpreters) – FORTRAN – BASIC – COBOL – PASCAL - C Language - Web Programming Languages – HTML - Java Script - Objected Oriented Programming with C++ - C++ Language - C# Language - Java Programming - Modern Programming Language – Python - GO Language - Swift Language - Kotlin Language - R Language - Artificial Intelligence Languages - Database Management Software	15
III	Digital Transformation - Data (High Value Commodity) - Digital Transformation in Business - Features of Digital Transformation -	15

	Banking and Financial Services Industry (BFSI) - Human Resource Management – Healthcare - Big Data Analytics in Healthcare - Virtual Reality Wearable medical devices		
IV	Cyber Security - IT Assets - Risk and Vulnerabilities - Computer Security Types - Fundamental Principles of Security - Physical Safety and Security - Access Control - Biometric Access Control - Network Security - AAA Server -– Firewall – Malware – Spyware – Adware – Spamware – Virus – Ransomware – Worms - Trojan Horse -	15	
V	– Computer Virus - Types of Computer Viruses - Antivirus Protection - Digital Signature - Cyber Crime – Hacking – Phishing - Spam e-mails - Attack using Malware - ATM Skimming – Ransomware - Fake News - Deep fake – Cyberbullying – **Textbook** Fundamentals of Internet and Emerging Technologies (2021) , C. Xavier, New Age International Publishers Ltd., New Delhi., Chapters 1, 2, 3 and 9 to 16 only. **Reference Book** 1. Introduction to Computer Science, Second Edition, ITL Education Solutions Ltd, Pearson Education 2. Introduction to Computers, Peter Norton, 7th Edition, McGraw Hill Education 3. Fundamentals of Computers, V.Rajaram, 5th Edition, PHI –	15	
	Total	**75**	

Course Outcomes		Programmeme Outcome
CO	On completion of this course, students will	
CO1	Understand the concept of network	PO1,PO6