Semester	1	
Course	Multi-Disciplinary	
Paper Title	INFORMATION AND COMMUNICATIONS TECHNOLOGY	
Taper Title	(ICT)	
Paper Code	M1CS230111T	
No. of Credits	3	
Theory / Practical /	Theory	
Composite	Theory	
Minimum No. of	3	
preparatory hours per week		
a student has to devote		
Number of Modules	1	
Syllabus		
Syndous	1. Introduction to ICT: Definition, ICT System Components, ICT and IT, ICT Tools, Applications of ICT, Advantages and Disadvantages of ICT, Social and Economic Impact of ICT	
	2. Number Systems and Codes: Weighted and Non-Weighted Codes, Positional Number Systems like Binary, Octal, Decimal and Hexadecimal. r's and (r-1)'s Complement.	
	3. Representation of Numbers and Characters	
	<b>4. Introduction to Problem Solving:</b> Concept of Data and Information, Basic problem solving using Flowchart and Algorithm	
	5. Computer Hardware and Software	
	<b>6. Introduction to Networking:</b> Advantages of Networking; Basic Features, LAN, MAN and WAN; Intranet and Internet; Servers and Clients; Ports; Domain Name System (DNS); world wide web; browsers; Guided and Unguided media.	
Learning Outcomes	Learn computer system and its various components.	
	Perform various logical and mathematical operations in different number systems.	
	3.Learn different formats of representing numbers and characters.	
	Acquire knowledge about problem solving and programming fundamentals.	
	5. Learn fundamentals of networking and communications.	
Reading/Reference Lists *4	Computer Fundamental- P.K Sinha.	
	2. Digital Logic and Computer Design, M Morris Mano, Pearson education India	

	<ol> <li>Data Communications and Networking, B Forouzan, Mc Graw Hill</li> <li>Fundamentals of Computers, V. Rajaraman, PHI</li> <li>Information and Communication Technology in Organizations: Adoption, Implementation, Use and Effects Harry Bouwman, Bart van den Hooff, Lidwien van de Wijngaert, Jan van Dijk, SAGE</li> </ol>	
Evaluation	Theory	
	CIA: 12	
	Attendance: 3	
	Semester Exam: 35	
Paper Structure for	5 out of 7 of 7 marks each	
Theory Semester Exam		