ITE102	Information Technology Fundamentals	LTPC	3	0	0	3
Version No.	1.0					
Aim	To acquire basic knowledge in IT and its applications					
Prerequisite	ITE101					
Objectives	• To know the data, information, and their representation • To know hardware and software • To learn about databases and computer networking • To know the applications of IT					
Outcomes	• The student should know what all make up IT, different elements, and use of it in applications.					
Unit 1	**Data and Information**				6 hr	
Data – Types of Data – Data Representation – Data Acquisition and Processing; Information and Information Processing – Information Storage – Business Information Systems – Information Security						
Unit 2	**Hardware and Software**				9 hr	
Parts of a Computer – Types of Computers – Computer I/O devices – Peripheral Devices – Types of computing – Recent Developments in Processor - System and Application Software – Operating System and its functions – Compiler and its Functions – Programming and Preparation of a Program - Latest Software Development Methodologies						
Unit 3	**Database and Networking**				12 hr	
Data Organization – File System – Database System – Uses and Comparison – Types of Databases – Principles of a DBMS – Commercial DBMS Software; Networking: Principles – Layers and Protocols – Types and Methods of Networking – Networking Uses – Networking Components – Network Security						
Unit 4	**Internet and WWW**				9 hr	
Internetworking – Internet and its Characteristics – Internet Communication and Programming – Internet Applications – World Wide Web – Information Retrieval – Web Applications and their Development – E-Commerce and E-Business – Cyber Security						
Unit 5	**IT Applications**				9 hr	
Scientific Computing – Business Computing – IT in Communications, Health, Education, Environment, Bioscience and Bioinformatics, etc – Information System – Decision Support System – Artificial Intelligence						
Text Book:	1. V. Rajaraman, "Introduction to Information Technology", PHI, 2004 2. Nelson …					
Reference Books:	1. E. Turban, K. Rainer, "Introduction to Information Systems", Kindle, 2009 2. E. Turban et al, "IT for Management: Making Connection for Strategic Advantage", 2e, John Wiley & Sons, 2001					
MoE	CAT, Quiz, Assignment, TEE					
DoR by BoS	27-11-2010					
DoA by AC	21st Academic Council held on 30-11-2010					