

CSE1012	Introduction to Computers and their Applications	L	T	P	J	C
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Pre-requisite		Syllabus version				
		1.0				
Course Objectives:						
This course is designed to help student to master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications.						
Expected Course Outcome: Apply fundamental principles and methods of Computer Science to a wide range of applications. Design, implement and document solutions to significant computational problems.						
Student Learning Outcomes (SLO): 1,2						
Module:1	History of Computers	4 hours	SLO: 1			
History of Computers, Basic Components of Computer Systems ,CPU ,Memory ,I/O Devices , Operating system, DOS and Unix system commands						
Module:2	Web Technologies	4 hours	SLO: 2			
Introduction to Internet - URL, WWW, HTML , Internet Protocols- HTTP, TCP/IP, E-Mail & FTP.						
Module:3	Computer Networks	3 hours	SLO: 1			
Networks and Data Communications: LAN, MAN & WAN – Network Topologies. Basics of Network, Uses of network, types of networks, Network topologies.						
Module:4	Word Processing	4 hours	SLO: 1			
Word basics, Editing and formatting a document, layout and inserting and managing graphics, formatting tables						
Module:5	Spreadsheets	4 hours	SLO: 2			
Spreadsheet basics, Editing worksheets, Form cells – formatting worksheets, formulas and function, data filtering and sorting, chart and graphs.						
Module:6	Presentation	5hours	SLO: 2			
Presentation basics, Creation of Presentation, Editing presentation, formatting presentation, working with multimedia.						

Module:7		Database Management		4 hours		SLO: 2			
Database basics, advantages of Database, Create database, updating and manipulating data, DDL and DML commands, database querying.									
Module:8		Recent trends		2 hours					
		Total Lecture hours:		30 hours					
Text Book(s)									
1.	Peter Norton, 2017, Introduction to Computers, 7th Edition, Tata McGraw Hill Publications.								
2.	Joan Lambert, and Curtis Frye, 2017 Microsoft Office 2016 Step by Step, Microsoft Press								
Reference Books									
1.	Rajaraman V, and Adabala N, 2014, Fundamentals of Computers, PHI Publication								
List of Experiments				SLO: 1					
1.	Unix and DOS commands								
2.	Creating and Formatting Word document								
3.	Creating and Manipulating Tables in a document								
4.	Inserting any Graphics in a document								
5.	Create a Personal Resume								
6.	Using the Excel Formula and Functions								
7.	Representing Data in a Chart								
8.	Excel Using Pivot Table								
9.	Excel Using Functions								
10.	Working with Design Templates and Auto Content wizards by using PowerPoint								
11.	Formatting and editing slides								
12.	PowerPoint Slide design								
13.	Slide transition effects								
14.	Creating and querying a recipe database using database program								
15.	Updating and manipulating database								
						Total Laboratory Hours		30 hours	
Mode of Evaluation: Assignments, Continuous assessment tests and Final assessment test.									
Recommended by Board of Studies									
Approved by Academic Council				No.53		Date		13.12.18	