Course code	Introduction to Computer Applications	L	T	P	C
XXXX		3	1	0	4
Pre-requisite: Nil		**Version**			

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

1. Having a clear understanding of the subject related concepts and of contemporary issues
2. Having an ability to design and conduct experiments, as well as to analyze and interpret data

Module	Topics	Hours	SLO
Module:1	**History of Computers**	**6**	**1**
	History of Computers, Basic Components of Computer Systems, CPU, Memory, I/O Devices, Introduction to Operating system, OS structure, DOS, Case study of Symbian OS		
Module:2	**Web Technologies**	**6**	**2**
	Introduction to Internet - URL, WWW, HTML, Internet Protocols-HTTP, TCP/IP, E-Mail & FTP. //Demo		
Module:3	**Computer Networks**	**6**	**1**
	Networks and Data Communications: LAN, MAN & WAN – Network Topologies. Basics of Network, Uses of network, types of networks, Network topologies.//Talk		
Module:4	**Word Processing, Spreadsheets & Presentation**	**6**	**1**
	Word basics, Editing and formatting a document, layout and inserting and managing graphics, formatting tables - Spreadsheet basics, Editing worksheets, Form cells – formatting worksheets, formulas and function, data filtering and sorting, chart and graphs. Presentation basics, Creation of Presentation, Editing presentation, formatting presentation, working with multimedia.		
Module:5	**Introductory Programming**	**8**	**2**
	Python – Data types, strings, operators, lists, tuples, sets, dictionaries, loops, applications - basic text processing applications – Simple Text Processing – Introduction to Corpus		
Module:6	**Database Management**	**8**	**2**
	Database basics, advantages of Database, Create database, updating and manipulating data, DDL and DML commands, database querying.		

	Total Lecture hours:	**40**	

References

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
3. Rajaraman V, and Adabala N, 2014, Fundamentals of Computers, PHI Publication

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Recommended by Board of Studies	23.11.2018		
Approved by Academic Council	53	Date	13.12.2018