DEPARTMENT OF INFORMATION TECHNOLOGY				*CLASS: I B.Sc. Information Technology*				
Sem.	**Course Type**	**Course Code**	**Course Title**	**Credits**	**Contact Hours/week**	**CIA**	**Ext**	**Total**
I	Major Core-2	20U1FMC2	Principles of Information Technology	2	3	25	75	100

Course Objectives:

1. To acquire the knowledge of fundamentals of Computer Systems.
2. To study the concepts of computer architecture and various Input / Output devices.
3. To demonstrate the Computer Software and Software development
4. To learn the concepts of Computer Networks and WWW.
5. Use Multimedia techniques in various areas.

Unit-I: Introduction

Introduction to Computers - Generation of Computers - Classification of Digital Computer - Anatomy of Digital Computer.

Unit-II: Hardware

Architecture of Computer - CPU and Memory - Secondary Story Devices - Input Devices - Output Devices.

Unit-III:Software

Introduction to Computer Software - Programming Language - Operating Systems - Introduction to Database Management System.

Unit-IV: Networks

Computer Networks - WWW and Internet - Email - Intranets - Mobile Computing and Business on the Internet.

Unit-V: Multimedia and Security

Introduction to Multimedia - Multimedia Applications - Computers at Home, Education, Entertainment, Science, Medicine and Engineering - Introduction to Computer Security - Computer Viruses, Bombs, Worms.

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Books for Study

1. Alexis Leon And Mathews Leon, Fundamentals of Information Technology, Vikas Publishing House Pvt. Ltd, 2009.

Chapters:

Unit I: Chapters1 -4.

Unit II: Chapters 5, 7-10.

Unit III: Chapters 11,13,14,16.

Unit IV: Chapters 21, 24-26, 49.

Unit V: Chapters: 33, 34, 46-48, 30, 32.

Books for Reference

1. Dennis P. Curtin ,Kim foley, KunalSen and Cathleen Morin, Information Technology – The Breaking Wave, Tata-McGraw Hill Publications, 2005.
2. Principle of Information Technology by Kathleen M. Austin and Lorraine N. Bergk.

Web Resources

1. http://www.itdesk.info/Basic Concepts of Information Technology notes.pdf
2. https://www.academia.edu/34887670/Unit_1_-Information_Technology_Notes

Pedagogy

Chalk and talk, Materials, PPT, Assignment, Seminar, Group discussion, Interaction and Projectors.

Course Learning Outcomes:

On the successful completion of the course, students will be able to

CLO No.	Course Learning Outcome	K - Level
CLO1	Describe the generation of computer and digital computer systems.	Up To K2
CLO2	Explain the basics of CPU and memory and different types of storage, Input/output devices.	Up To K4
CLO3	Illustrate the computer Software and database management systems.	Up To K3
CLO4	Classify the concepts of Computer Network.	Up To K3
CLO5	Explain Multimedia applications.	Up To K4

Mapping of CLOs with POs:

CLOs / POs	PO1	PO2	PO3	PO4	PO5
CLO1	3	2	1	1	3
CLO2	3	1	N/A	N/A	2
CLO3	2	3	N/A	N/A	3
CLO4	3	2	N/A	N/A	2
CLO5	2	3	1	2	3

3- Advanced Application; 2- Intermediate Level; 1- Basic Level; N/A- Not Applicable

Mapping of CLOs with PSOs:

COs / PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CLO1	3	3	1	1	3	N/A
CLO2	3	3	3	3	3	2
CLO3	3	2	2	2	3	2
CLO4	3	3	2	3	2	1
CLO5	3	2	3	3	2	2

3- Advanced Application; 2- Intermediate Level; 1- Basic Level; N/A- Not Applicable

Learning Outcome Based Education & Assessment (LOBE)
Blue Print for Summative Examination - Principles of Information Technology
Articulation Mapping – K Levels with Course Learning Outcomes (CLOs)

Sl.No	CLOs	K - Level	Section A		Section B		Section C (Either / or Choice)	Section D (Open Choice)
			MCQs		Short Answer			
			No. of Questions	K – Level	No.of Questions	K - Level		
1	CLO 1	Up to K 2	2	K1 & K2	1	K1	2 (K1 & K1)	1(K2)
2	CLO 2	Up to K 4	2	K1 & K2	1	K2	2 (K2 & K2)	1(K4)
3	CLO 3	Up to K 3	2	K1 & K2	1	K2	2 (K3& K3)	1(K3)
4	CLO 4	Up to K 3	2	K1 & K2	1	K3	2 (K3 & K3)	1(K3)
5	CLO 5	Up to K 4	2	K1 & K2	1	K2	2 (K3 & K3)	1(K4)
No. of Questions to be asked			10		5		10	5
No. of Questions to be answered			10		5		5	3
Marks for each Question			1		2		5	10
Total Marks for each section			10		10		25	30

K1 – Remembering and recalling facts with specific answers
K2 – Basic understanding of facts and stating main ideas with general answers
K3 – Application oriented – Solving Problems
K4 – Examining analyzing , presentation and make inferences with evidences

Distribution of Section – wise Marks with K Levels

K – Level	**Section A (No Choice)**	**Section B (No Choice)**	**Section C (Either / or Choice)**	**Section D (Open Choice)**	**Total Marks**	**% of Marks without choice**	**Consolidated**
K1	5	2	10	-	17	14.16	40 %
K2	5	6	10	10	31	25.83	
K3	-	2	30	20	52	43.33	43.33%
K4	-	-	-	20	20	16.66	16.66 %
Total Marks	10	10	50	50	120	100.00	100 %

Lesson Plan:

Units	Topics to be Covered	Hours	Mode
I	Introduction to computer systems, five generation of modern computers	4	Lecture
	Classification of digital computer systems Anatomy of a digital computer	5	Lecture, GD
II	Computer Architecture , CPU and memory	6	Lecture
	Secondary storage ,Input/output devices	3	Lecture, GD
III	Introduction to computer software, programming language	5	Lecture
	Operating systems, Introduction DBMS	4	Lecture
IV	Computer Network , Internet, WWW	5	Lecture
	E-mail , Introduction to Intranet, Mobile computing and business on the internet	4	Lecture, GD
V	Introduction to computer security, computer viruses, bombs, worms	5	Lecture, GD
	Multimedia Applications, Computer in Educations and Training, Entertainment, Science, Medicine and Engineering.	4	Lecture, Assignment

Name of the Course Designers:

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