BASICS OF INFORMATION TECHNOLOGY

Sem	Subject code	Category	Lecture Hr/Sem		Theory		Practical	Credits
IV	21CPHI4Da	Elective - IV	6 hr per week	90	6 hr per week	90	-	3

COURSE OBJECTIVE

To enable the students to understand the System Life Cycle

To make the students to understand the Network

COURSE OUTCOMES

On the successful completion of the course the student will be able to ..

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Understand the Introduction of Information Technology	K2
CO2	Explain about the Data Processing Cycle	K2
CO3	Understand the System Life Cycle	K1
CO4	Describe about Network	K2
CO5	Identify the Microsoft Windows XP	K1

Knowledge Level : K1-Remember ; K2 –Understand ; K3 – Apply ; K4 - Analyse

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	M	S	M	S	M
CO2	M	M	S	S	M	S
CO3	S	M	S	M	S	M
CO4	M	S	M	S	M	S
CO5	S	M	M	M	M	M

S- Strong; M-Medium; L- Low

UNIT-I Introduction of Information Technology   **18 Hours**

Introduction of Information Technology: Information- Characteristics of Information – Uses of Information – Flow of Information in Organisation. Levels of Information- Categories of Information- Information Technology – Introductory concepts and Application of Computers: Introduction to Computers- Importance of Computers – Computer Application in various Areas of Business – Personal – Finance- Marketing- Production- Office automation- Fundamentals of Computer- Classification of Computers – Basic Principles of Operation of Digital Computer – Computer System- Computer Virus – Development of Computers and Computer Generations- Computer Number Systems.

UNIT –II Data Processing   **18 Hours**

Data Processing: Data Processing Concepts – Data Processing Cycle – Objectives of Data Processing _- Steps of Data processing – Data Processing Operations – Data Bank – Data Structures – File Organisation –File maintenance.

UNIT –III Programming   **18 Hours**

Programming: Problem Solving and Programming – Concept of programming – Programming Tools – Examples –System Analysis and Design: System Life Cycle – Problem definition- System analysis – System design- Coding- Testing and communicating the solution –System Specification- Documentation control and change control – Implementation – Maintenance.

UNIT-IV Network   **18 Hours**

Network : Introduction to network – Type of Networks- LAN-WAN-MAN-WLAN Operating System: Function- Classifications -Types – DOS- UNIX- Windows 98- Windows NTE – Commerce and Internet: E-Commerce-Reasons for growth-Features-Importance- Objectives- Types- Internet- Evolution of Internet-governing of the internet-transmission of Information and Resources-TCP/IP-HTTP-Services of Internet Intranet-Extranet.

UNIT-V Computer Based Information System   **18 Hours**

Computer Based Information System- Introduction to Information Systems – Need for Computer Based Information Systems- Transaction Processing System – Management – Information System- Decision Support System- Expert System - Recent Trends on IT- World Wide WEB – BlueTooth Technology- Set Top Boxes – Wireless Local Area Network –Internet Telephony –DTH -Direct to Home – Electronic Reusable Paper. Internet Printing Protocol - Personal Digital Assistant – Microsoft Windows XP –Next for the Internet –Internet 2 – VOIP.

DISTRIBUTION OF MARKS: THEORY 100%

TEACHING METHODOLOGY:

- Class room teaching
- Assignments
- Discussions
- Home test
- PPT Presentations.

TEXT BOOKS

S.no	Authors	Title	Publishers	Year Of Publication
1	R. Saravanakumar, R.Parameswaran and T.Jayalakshmi,	A TextBook of Information Technology,	S.Chand	2007
2	Ashok Arora	Basic of computer and Information technology	vikas	2015
3	V.Rajaram	Introduction to Information Technology	Prentice Hall	2013

REFERENCE BOOKS

S.no	Authors	Title	Publishers	Year Of Publication
1	Curting	Information technology: The Breaking Wave	TMH	2006
2	Vakul Sharma	Information technology	Universal law publishing an imprint of Lexis Nexis	2018
3	A.Sharma	Information Technology	CBS	2003
4	ITL Education Solution Limited	Introduction to Information Technology	Pearson India	2012
5	Richard Fox	Information Technology	Chapman and Hall/CRC	2015

WEB SOURCES:

e-school.kmutt.ac.th

SYLLABUS DESIGNER :

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