

Faculty of: Computer Science Course: Bachelor of Science (Information Technology) Semester: I Subject Code: 4CS01TOA1 Subject Name: Computer fundamentals & Office automation

Sr No	.Brai	nch	Subject Code	Subject Name	Teaching hours/ Week		Credit	Credit	Evaluation Scheme/ Semester Theory Practical									
	Cod	de			Th	Tu		hours	Points	i ne		End Semester Exams		Internal Assessment		End Semester		Total
													Duration					
4	2		4CS01TOA1	Computer fundamentals & Office automation	4		2	6	5	15 SE 15 CE	1Hr.	70	21⁄2 Hrs.	25 IP 25 CE	1			150

AIM:

To enable the student to learn number system, computer codes, hardware, Software, operating system, storage devices and office applications used in operating system etc.

COURSE CONTENTS

Unit I Introduction to Computer	06 Hrs.
Functional Block Diagram	
Computer : History and Development	
Evolution of Computer	
An Introduction to Computer	
Unit II Overview of Computer	06 Hrs.
• Different types of Input Devices.	
 Different types of Output Devices. 	
• Different types of Storage Devices.	
Unit III Number System	10 Hrs.
Binary, Octal, Decimal, Hexadecimal	
Conversion of Numbers:	
• Decimal to Binary, Octal, Hexadecimal	
Binary to Decimal, Octal, Hexadecimal	
• Octal to Decimal, Binary, Hexadecimal	
Hexadecimal to Decimal, Binary, Octal	
• 1's complement, 2's complement, Binary Addition, Binary Subtraction	
Unit IV Basics of gate and operating system	10 Hrs.
 Logic Gates, AND, OR, NOT, NAND, NOR, EX-OR, EX-NOR 	

- Half Adder, Full Adder, Multiplexer, De-multiplexer
- Operating System, (Batch,, Multiprocessor, Multiprogramming, Time Sharing, Real Time)

Unit V Emerging Technology

- Bluetooth
- Wi-Fi
- Li-fi
- GPS
- Wi-max

Unit VI Introduction to Internet

- An Introduction to Computer Networking.
- Introduction to LAN, MAN, WAN, intranet, E-mail, Components of E-Mail.

REFERENCE BOOKS:

- Computer Fundamentals, by P. K. Sinha, ISBN-13: 978-8176567527, Publisher: BPB
- COMPUTER ORGANIZATION AND ARCHITECTURE Kindle Edition, by V. Radhakrishnan, T. Rajaraman, Publisher: PHI
- Computer System Architecture M. Morris Mano
- Computer Organization & Architecture William Stallings, 4th Ed.

SWAYAM/NPTEL Link:

https://onlinecourses.swayam2.ac.in/cec21_cs15/preview

Practical on MS Office: Word, Excel & Power Point

08 Hrs.

08 Hrs.