LESSON PLAN

ON

COMPUTER APPLICATION (THEORY)

1ST SEMESTER

SESSION: 2022-23

PREPARED BY

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DEPARTMENT OF MATHEMATICS & SCIENCE.

Discipline: **MECHANICAL ENGG.**	Semester: 1st	Name of the Teaching Faculty: **Mr.Paramananda Dash, Lecturer in Computer Application.**
Subject: **COMPUTER APPLICATION**	No. of days/per week class allotted:**04**	Semester From date: **25.10.2022** **To Date: 31.01.2023** No.of Weeks:**14**
PRE-REQUISITE	Fundamental concepts only.	
COURSE OUTCOMES	**CO1:** Understand the fundamental concepts, i/o devices & various parts of computer. **CO2:** Understand the concepts software, hardware & operating system. **CO3:** Understand the concepts of algorithms ,flow charts & Programming Languages & techniques. **CO4:** Development of Programs using different techniques. **CO5:** Understand the Networking concepts,.	

Week	Class Day	Theory/Practical Topics	DELIVERY METHOD
1ST	1ST	Introduction to computer.	Whiteboard
	2ND	Evolution of Computers.	Whiteboard
	3RD	Generation of Computers.	Whiteboard
	4TH	Classification of computer.	Whiteboard
2ND	1ST	Basic Organization of Computer.	Whiteboard
	2ND	(Functional Block Diagram) Input devices, CPU & Output Devices.	Whiteboard
	3RD	Computer Memory and Classification Of Memory.	Whiteboard
	4TH	**QUIZ & ASSIGNMENT-I**	Discussion
3RD	1ST	Software Concept,	Whiteboard
	2ND	System software, Application software,	Whiteboard
	3RD	Overview of Operating System.	Whiteboard
	4TH	Objectives and Function Of O.S.	Whiteboard
4TH	1ST	Types of Operating System: Batch Processing,	Whiteboard
	2ND	Multiprogramming, Time Sharing OS	Whiteboard
	3RD	Features Of DOS, windows and UNIX ,	Whiteboard
	4TH	Programming Languages.	Whiteboard
5TH	1ST	Compiler, interpreter	Whiteboard
	2ND	Computer Virus & Different types Of Computer Virus,	Whiteboard
	3RD	Detection & Prevention of Virus.	Whiteboard
	4TH	Application of computers in different Domain.	Whiteboard
6TH	1ST	Algorithm, Pseudo code and	Whiteboard
	2ND	Flowchart Generation	Whiteboard
	3RD	Programming Languages.	Whiteboard
	4TH	Structured Programming Language, Examples of problem solving through Flowchart	Whiteboard

7TH	1ST	Constants, Variables	Whiteboard
	2ND	Data Types in C	Whiteboard
	3RD	Managing Input and Output operations.	Whiteboard
	4TH	Decision control and looping Statement	Lecture notes
8TH	1ST	if, if-else, If –else-if,	PPT
	2ND	Switch, While, Do-while, For , Break, Continue & Go to	Whiteboard
	3RD	Programming Assignments Using the above Features.	Whiteboard
	4TH	Functions and Passing Parameters to the Function.	Discussion
9TH	1ST	Call by Value and Call by Reference.	Whiteboard
	2ND	Scope of Variables and Storage Classes Recursion	Whiteboard
	3RD	Function and Types of Recursion.	Lecture notes
	4TH	One Dimensional Array, and Multidimensional Array,	Whiteboard
10TH	1ST	String Operation and Pointers.	Whiteboard
	2ND	Pointer Expression and Pointer	Whiteboard
	3RD	Structure and Union.	Whiteboard
	4TH	Assignments using the Above Features.	Whiteboard
11TH	1ST	Networking concept,	Whiteboard
	2ND	Protocol, Connecting Media, Date Transmission mode ,	Whiteboard
	3RD	Network Topologies, Types Of Network.	Whiteboard
	4TH	Networking Devices like Hub, Repeater, Switch	Lecture notes
12TH	1ST	Bridge, Router, Gateway & NIC	Whiteboard
	2ND	Internet Services like E-mail. WWW,	Whiteboard
	3RD	FTP, chatting, Internet Conferencing.	Whiteboard
	4TH	Electronic Newspaper & Online Shopping.	Whiteboard
13TH	1ST	Different Types of Internet connectivity and ISP.	Whiteboard
	2ND	Concept of File and Folder,	Whiteboard
	3RD	File Access and Storage methods.	Whiteboard
	4TH	Sequential. Direct,	Whiteboard
14TH	1ST	ISAM.	Whiteboard
	2ND	Data Processing And Retrieval. **QUIZ & ASSIGNMENT-II**	
	3RD	Revision.	
	4TH	Revision.	

LEARNING RESOUCES:

01. Computer Fundamentals. By P K Sinha, BPB.
02. Computer Fundamentals & Programming. By ReemaThareja, Oxford University Press.
03. Programming in C, By Yashavant Karnetkar. BPB.
04. Working with C, By Yashavant Karnetkar. BPB.

26/10/22

Sign. of Faculty concerned

Principal
G.P Puri

26/10/22

Sign. of HOD