GOVT. POLYTECHNIC. KORAPUT

LESSON PLAN (COMPUTER APPLICATION)

Discipline: MATH & SCIENCE	Semester: 1ST SEMESTER	NAME OF THE TEACHING FACULTY: SHRI.DEBASIS GOUDA, PTGF IN COMPUTER APPLICATION	
Subject: Comp Appl. Sub code: TH1b	No of days /week class allotted:04	SEMESTER FROM DATE: 26/10/2022 NO.OF WEEKS: 15	TO DATE: 31/01/2023

Week	Class Day	Theory topics	Practical topics
1st	1st	Introduction to Computer, Evolution of Computers ,Generation of Computers ,Classification of Computers	Identification of different components of Computer ,Switch on and Booting Process ,Shut down, Restart of computer
	2nd	Generation of Computers ,Classification of Computers	Study of device and power supply form factor of Personal Computer System
	3rd	Basic Organisation of Computer (Functional Block diagram) Input Devices,	Identification of various Mother Board components and Identification of different Ports
	4th	CPU & Output Devices. Computer Memory and Classification of Memory	Types of connectors, and their purpose
2nd	1st	Software concept, System software, Application software	Cooling System of Processor and Case Identification
	2nd	Overview of Operating System Objectives and Functions of O.S ,	Study of ROM, RAM, Adapter Cards, Expansion Slots, SATA connectors
	3rd	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX	Study of Adapters and Converters
	4th	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX	Study of various types of LAB Safety measures (General Safety, Electrical Safety, Fire safety)
3rd	1st	Programming Languages, Compiler, interpreter Computer Virus	Analysis of various Power Fluctuation Types (Blackout, Brownout, Noise, Spike, Power surge), Power Protection Devices (Surge suppressor, UPS, Standby power supply)
	2nd	Different Types of computer virus	Procedures for proper disposal or recycling of hazardous computer components (Batteries, Monitors, Toner Kits, Cartridges, Chemical Solvents and Aerosol Cans)
	3rd	Detection and prevention of Virus Application of computers in different Domain	Study of General Lab Tools (ESD tools, Hand tools, cable tools, Cleaning tools, Diagnostic tools), Disk Management Tools
	4th	Revision and doubt clearing class	Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH)
4th	1st	Networking concept, Protocol, Connecting Media, Data Transmission mode	Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH)

	2nd	Network Topologies, Types of Network	Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH)
	3rd	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC	Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS
	4th	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing.	Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS
5th	1st	Electronic Newspaper & Online Shopping Different types of Internet connectivity and ISP	Basic operations of Word Processing Package. (MS-Word)
	2nd	Doubt Clearing classes	Basic operations of Word Processing Package. (MS-Word)
	3rd	Concept of File and Folder	Basic operations of Word Processing Package. (MS-Word) Assignment on MS-WORD
	4th	File Access and Storage methods. Sequential, Direct, ISAM	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
6th	1st	File Access and Storage methods. Sequential, Direct, ISAM	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
	2nd	Data Capture, Data storage	Basic operations of Electronic Spread Sheet Package. (MS-Excel).Assignment on Excel
	3rd	Data Processing and Retrieval	Basic operations of Presentation Package (MS- Power point)
	4th	Algorithm, Pseudo code	Basic operations of Presentation Package (MS- Power point)
7th	1st	Flowchart Generation of Programming Languages Structured Programming Language	Basic operations of Presentation Package (MS- Power point) (Create, Edit, Format, Save, Print/View in the above three packages)
	2nd	Flowchart to find the greatest number among three numbers	Getting acquainted with Internet connection, Browser, Website URL, Webpage, http, WWW, Net browsing
	3rd	Flowchart to find the average of n numbers	Creating E-Mail Id, sending and receiving E-mail Chatting
	4th	Flowchart to determine whether a number is prime or not	CISCO-IT Essential exam Chapter-1
8th	1st	Flowchart to check whether a given number is palindrome or not?	CISCO-IT Essential exam Chapter-2 & 3
	2nd	Flowchart to compute the sine series.	CISCO-IT Essential exam Chapter-4 &5
	3rd	Constants, Variables	CISCO-IT Essential exam Chapter-6 & 7
	4th	Data types in C Managing Input and Output operations.	CISCO-IT Essential exam Chapter-8 & 9
9th	1st	Data types in C Managing Input and Output operations.	CISCO-IT Essential exam Chapter-10 & 11
	2nd	Data types in C Managing Input and Output operations.	CISCO-IT Essential exam Chapter-12 & 13
	3rd	Operators	CISCO-IT Essential exam Chapter-14
	4th	Operators	Final Exam ch-1 to 9
10th	1st	Operators	Final Exam ch-10 to 14
	2nd	Operators	Feed back and composite final exam ch-1 to 14.
	3rd	Expressions	Feed back and composite final exam ch-1 to 14.

	4th	Type conversion & Typecasting	Certificate distribution on successful completion.
	1st	Type conversion & Typecasting	Familiar with Turbo c++ s/w.
	2nd	Decision Control and Looping Statements	Write a Program in C to find the greatest number among three numbers.
	3rd	Decision Control and Looping Statements	Write a Program in C to find the greatest number among three numbers.
	4th	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto)	Write a Program in C to find the greatest number among three numbers.
12TH	1st	Write a Program in C to find the greatest number among three numbers.	Write a Program in C to find the average of n numbers by using for loop
	2nd	Write a Program in C to find the average of n numbers by using for loop.	Write a Program in C to find the average of n numbers by using for loop .
	3rd	Write a program in C to determine whether a number is prime or not?	Write a program in C to determine whether a number is prime or not?
	4th	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)	Write a program in C to determine whether a number is prime or not?
13TH	1st	Scope of Variables and Storage Classes	Write a program in C to check whether a given number is palindrome or not? .
	2nd	Recursion Function and Types of Recursion	Write a program in C to compute the sine series
	3rd	One Dimensional Array and Multidimensional Array	Write a program in C to accept row wise and column wise element in a two dimensional array & print them.
	4th	String Operations .	Write a program in C to find the vowels in a given string
14TH	1st	Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features	Write a program in C to find the factorial of a number, by using recursion
	2nd	Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features	Write a program in C to find the sum of Fibonacci series, by using function.
	3rd	Structure and Union (Only concepts, No Programming)	Write a program in C to accept a number from keyboard and print it in reverse order of entry, by using function
	4th	DOUBT CLEARING CLASSES.	LAB PRACTICE .
15TH	1st	CLASS TEST.	LAB PRACTICE .
	2nd	CLASS TEST.	LAB PRACTICE .
	3rd	CLASS TEST	LAB PRACTICE .
	4th	CLASS TEST	LAB PRACTICE .

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Submitted By
Shri. Debasis Gouda
PTGF, Computer Application