

GOVT. POLYTECHNIC, MAYURBHANJ

LESSON PLAN

Faculty Name	: Hemangini Dalei	EMP Id	: 91266180
Subject Name	: Computer Application	Code	: Th.1B
Year	: 1 st	Semester	: 2nd
Branch	: All	Section	: NA

Objective:

The students will get to know about the fundamentals of computer. They will get acquainted with various components of computer hardware, software etc. Idea on Role of operating system and its usability will also be known. Knowledge on word processing, electronic spreadsheet, presentation software and Internet will also be acquired. The students will be given brief knowledge about Programming methodology and C programming.

UNIT	TOPIC	COURSE TO BE COVERED	NO OF PERIODS REQUIRED	REMARK
1	Computer Organisation	Introduction to Computer, Evolution of Computers	2	
		Generation of Computers, Classification of Computers	2	
		Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices	2	
		Computer Memory and Classification of Memory	1	
2	Computer Software	Software concept, System software, Application software	1	
		Overview of Operating System Objectives and Functions of O.S ,	2	
		Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS	1	
		Features of DOS, Windows and UNIX	2	
		Programming Languages Compiler, interpreter	1	

2	Computer Software	Computer Virus Different Types of computer virus Detection and prevention of Virus	2	
		Application of computers in different Domain	1	
3	Computer Network and Internet	Networking concept, Protocol, Connecting Media,	2	
		Network Topologies, Types of Network	2	
		Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC	1	
		Internet Services like E-Mail, WWW, FTP, Chatting	1	
		Internet Conferencing, Electronic Newspaper & Online Shopping	1	
		Different types of Internet connectivity and ISP	1	
4	File management and Data Processing	Concept of File and Folder File Access and Storage methods. Sequential, Direct, ISAM	2	
		Data Capture, Data storage	1	
		Data Processing and Retrieval	1	
5	Problem Solving Methodology	Algorithms, pseudo code	1	
		Flowchart, generations of programming language	2	
		Structured programming	1	
		Examples of problem solving through flowchart	1	
6	Overview of C programming language	Constants, variables and data types in C	2	
		Managing input and output operations	1	
		Operators, expressions	2	
		Type conversion, type casting	1	
		Decision control and looping statement	4	
		Programming assignment using above features	3	
7	Advanced features in C	Functions and passing parameters to the function	2	
		Scope of variable and storage class	1	
		Recursion function and its types	2	
		One dimensional and multi dimensional array	3	
		String operations and pointers	2	
		Pointer expression and arithmetic	2	
		Programming assignments	1	
		Structure and union	1	
		Total	60	

