## KIIT POLYTECHNIC, BHUBANESWAR

## LESSON PLAN Session (2022-2023)

Discipline:	Semester: 1 <sup>st</sup> ,	Name of the faculty: Laxmipriya Samantaray
Mechanical/metallurgy	W/2022	Email: laxmipriyasamantarayfcs@kp.kiit.ac.in
Engineering		
Subject: Computer	No. of	<b>Start Date:</b> 24/10/2022
Application, Theory-1b	Days/week: 05	End Date: 20/02/2023

Week	Class Day	Theory Topics
1 <sup>st</sup> 1 <sup>st</sup>		1. Introduction to Computer Organisation
	$2^{nd}$	Introduction to Computer Evolution of Computers Generation
		of Computers Classification
	3 <sup>rd</sup>	of Computers
	4 <sup>th</sup>	Basic Organisation of Computer (Functional Block diagram)
		Input Devices, CPU &
$2^{nd}$	1 <sup>st</sup>	Output Devices.
	$2^{nd}$	Computer Memory and Classification of Memory
	3 <sup>rd</sup>	Revision
	4 <sup>th</sup>	Question answer discussion
3 <sup>rd</sup>	1 <sup>st</sup>	2. Introduction to Computer Software
	$2^{nd}$	Software concept, System software, Application software
	3 <sup>rd</sup>	Overview of Operating System Objectives and Functions of O.S
	4 <sup>th</sup>	Types of Operating System: Batch Processing,
		Multiprogramming, Time Sharing OS
$4^{\text{th}}$	1 <sup>st</sup>	Features of DOS, Windows and UNIX
	$2^{nd}$	Programming Languages
	3 <sup>rd</sup>	Compiler Interpreter Computer Virus
	4 <sup>th</sup>	Different Types of computer virus
$5^{\text{th}}$	$1^{st}$	Detection and prevention of Virus
	$2^{nd}$	Application of computers in different Domain
	3 <sup>rd</sup>	Revision
	4 <sup>th</sup>	3. Introduction to Computer Network & Internet
6 <sup>th</sup>	1 <sup>st</sup>	Networking concept, Protocol, Connecting Media, Date
		Transmission mode
	$2^{nd}$	Network Topologies, Types of Networks
	3 <sup>rd</sup>	Networking Devices like Hub, Repeater, Switch, Bridge,
		Router, Gateway & NIC
	4 <sup>th</sup>	Internet Services like E-Mail, WWW, FTP, Chatting, Internet
		Conferencing,
7 <sup>th</sup>	1 <sup>st</sup>	Electronic Newspaper & Online Shopping
	$2^{nd}$	Different types of Internet connectivity and ISP

	3 <sup>rd</sup>	Revision		
	4 <sup>th</sup>	Quiz -1		
8 <sup>th</sup>	$1^{st}$	4. Introduction to File Management & Data Processing		
	$2^{nd}$	Concept of File and Folder		
	3 <sup>rd</sup>	File Access and Storage methods.		
	4 <sup>th</sup>	Sequential, Direct, ISAM		
9 <sup>th</sup>	$1^{st}$	Data Capture, Data storage		
	$2^{nd}$	Data Processing and Retrieval		
	3 <sup>rd</sup>	Doubt Clearing Session		
	4 <sup>th</sup>	Revision		
10 <sup>th</sup>	$1^{st}$	5. Introduction to Problem Solving Methodology		
	$2^{nd}$	Algorithm, Pseudo code and Flowchart Generation of		
		Programming Languages		
	3 <sup>rd</sup>	Structured Programming Language		
	4 <sup>th</sup>	Examples of Problem solving through Flowchart		
11 <sup>th</sup>	$1^{st}$	Continuing Problem-solving flowchart		
	$2^{nd}$	Revision		
	3 <sup>rd</sup>	6. Overview of C Programming Language		
	4 <sup>th</sup>	Constants, Variables and Data types in C Managing Input and		
		Output operations.		
12 <sup>th</sup>	$1^{st}$	Operators, Expressions, Type conversion & Typecasting		
	$2^{nd}$	Decision Control and Looping Statements (If, If-else, If-else-if,		
		Switch, While, do while,		
	3 <sup>rd</sup>	For, Break, Continue & Goto)		
	$4^{th}$	Programming Assignments using the above features.		
13 <sup>th</sup>	$1^{st}$	Revision		
	$2^{nd}$	Quiz -2		
	3 <sup>rd</sup>	7. Advanced Features of C		
	4 <sup>th</sup>	Functions and Passing Parameters to the Function (Call by		
		Value and Call by Reference)		
14 <sup>th</sup>	$1^{st}$	Scope of Variables and Storage Classes		
	$2^{nd}$	Recursion Function and Types of Recursions		
	3 <sup>rd</sup>	One Dimensional Array and Multidimensional Array		
	4 <sup>th</sup>	String Operations and Pointers		
15 <sup>th</sup>	$1^{st}$	Pointer Expression and Pointer Arithmetic Programming		
		Assignments using the above		
	$2^{nd}$	features. Structure and Union (Only concepts, No		
		Programming)		
	3 <sup>rd</sup>	Doubt Clearing Session		
	4 <sup>th</sup>	Revision		