Discipline: COMPUTER SCIENCE	Semester: 1 <sup>st</sup>	Name of the Teaching Faculty: S.R. PATTNAIK, Lecturer(CSE)
Subject:	No. of days class	Semester from date:
Computer	allotted/week: <b>04</b>	
Application		No. of weeks: 15
Week	Class Day	Theory
<b>1</b> ST	1 <sup>st</sup>	Introduction to Computer & Evolution of Computers
	<b>2</b> nd	Generation of Computers
	3 <sup>rd</sup>	Classification of Computers
	4 <sup>th</sup>	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU &Output Devices.
2 <sup>ND</sup>	<b>1</b> st	Computer Memory and Classification of Memory
	2 <sup>nd</sup>	Software concept, System software, Application software
	<b>3</b> rd	Overview of Operating System Objectives and Functions of O.S.
	<b>4</b> th	Types of Operating System: Batch Processing,
		Multiprogramming, Time Sharing OS
	<b>1</b> st	Features of DOS, Windows and UNIX
_	<b>2</b> nd	Programming Languages Compiler, interpreter
3 <sup>RD</sup>	3 <sup>rd</sup>	Computer Virus, Different Types of computer virus
	<b>4</b> th	Detection and prevention of Virus, Application of computers in different Domain
	<b>1</b> st	Networking concept, Protocol,
	2nd	Connecting Media
<b>4</b> TH		Date Transmission mode
	4 <sup>th</sup>	Network Topologies
<b>5</b> тн	<b>1</b> st	Types of Network
	2 <sup>nd</sup>	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
	3rd	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping
	<b>4</b> th	Different types of Internet connectivity and ISP
	<b>1</b> st	Concept of File and Folder
	2nd	File Access and Storage methods. Sequential, Direct, ISAM
6тн	3rd	Data Capture
	<b>4</b> th	Data storage
<b>7</b> <sup>TH</sup>	<b>1</b> st	Data Processing and Retrieval
	<b>2</b> nd	Algorithm, Pseudo code and Flowchart
		Generation of Programming Languages
	<b>4</b> th	Structured Programming Language
	<b>1</b> st	Examples of Problem solving through Flowchart
8тн	<b>2</b> nd	Examples of Problem solving through Flowchart
	3 <sup>rd</sup>	Introduction to C Programming
	<b>4</b> th	Structure of a C program
9тн	<b>1</b> st	Tokens in C: Character, Keyword, Datatype
	2 <sup>nd</sup>	Constant in C
		Variable declaration and initialization
	<b>4</b> th	Managing Input-Output(I/O) Operations
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10 <sup>TH</sup>		
9тн	3rd 4th 1st 2nd 3rd	Introduction to C Programming Structure of a C program Tokens in C: Character, Keyword, Datatype Constant in C Variable declaration and initialization

	4 <sup>th</sup>	Decision Control statement: if, ifelse, nested if
	<b>1</b> st	Decision Control statement:if else ladder, switch statement
	2 <sup>nd</sup>	Looping or iteration statements: while, do while
11 <sup>TH</sup>	3 <sup>rd</sup>	Looping or iteration statements: for, nested for
	<b>4</b> th	Jumping statements: goto, break, continue
	<b>1</b> st	Jumping statements : break, continue
	2 <sup>nd</sup>	Fuction: Function declaration, function definition
12 <sup>TH</sup>	3 <sup>rd</sup>	Accessing a function, Formal Arguments, Actual Arguments
	<b>4</b> th	Passing parameters to the function: Call by value, Call by
		reference
	<b>1</b> st	Function recursion
	2 <sup>nd</sup>	Storage classes
13 <sup>TH</sup>	3 <sup>rd</sup>	Array: Array declaration and definition 1D, Accessing elements of
		an array
	<b>4</b> th	Multidimensional Array
	<b>1</b> st	Strings, strings constants
	<b>2</b> nd	Strings library function
14 <sup>TH</sup>	3 <sup>rd</sup>	Pointers: Declaration and initialization
	<b>4</b> th	Pointer Expression and Arithmatic
	<b>1</b> st	Structure: declaration and Definition
	<b>2</b> nd	Accessing structure members
15 <sup>™</sup>	3 <sup>rd</sup>	Union: Declaration and Definition
	<b>4</b> th	Accessing Union Members

## REFERENCE BOOKS:

- "Computer Fundamentals" by P K Sinha
   "FUNDAMENTALS OF COMPUTERS" by E Balagurusamy
   "Computer Basics and C Programming" by Rajaraman V