

**INSTITUTE OF ENGINEERING AND MANAGEMENT**  
**GOURAHARI VIHAR, PO: RANIPUT, JEYPORE – 764 005**

**LESSON PLAN**

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

	4 <sup>th</sup>	DecisionControlstatement:if,if..else,nestedif
11 <sup>TH</sup>	1 <sup>st</sup>	DecisionControlstatement:if elseladder,switchstatement
	2 <sup>nd</sup>	Loopingoriterationstatements:while,dowhile
	3 <sup>rd</sup>	Looping oriterationstatements:for,nestedfor
	4 <sup>th</sup>	Jumpingstatements:goto,break,continue
12 <sup>TH</sup>	1 <sup>st</sup>	Jumpingstatements: break, continue
	2 <sup>nd</sup>	<b>Fuction:</b> Functiondeclaration,functiondefinition
	3 <sup>rd</sup>	Accessingafunction,FormalArguments,ActualArguments
	4 <sup>th</sup>	Passing parameterstothefunction:Callbyvalue, Callby reference
13 <sup>TH</sup>	1 <sup>st</sup>	Function recursion
	2 <sup>nd</sup>	Storageclasses
	3 <sup>rd</sup>	Array: Arraydeclarationanddefinition1D,Accessingelementsof an array
	4 <sup>th</sup>	MultidimensionalArray
14 <sup>TH</sup>	1 <sup>st</sup>	Strings,stringsconstants
	2 <sup>nd</sup>	Stringslibraryfunction
	3 <sup>rd</sup>	Pointers:Declarationandinitialization
	4 <sup>th</sup>	Pointer ExpressionandArithmetic
15 <sup>TH</sup>	1 <sup>st</sup>	Structure:declarationandDefinition
	2 <sup>nd</sup>	Accessingstructuremembers
	3 <sup>rd</sup>	Union: DeclarationandDefinition
	4 <sup>th</sup>	AccessingUnionMembers

#### Books Recommended:

1. **Computer Fundamentals and Programming in C** by ReemaThareja, Oxford Unversity Press
2. **Programming in ANSI C** by A.N Kamthane, Pearson Education
3. **Computer Application** by Kalyani Publisher
4. **Let us C** by Y. Kanetkar, BPB 5. **Computer Fundamentals**, by E. Balaguruswamy, TMH