



# GANDHISCHOOL OF ENGINEERING

**BHABANDHA, BERHAMPUR**

**SUBJECT-COMPUTER APPLICATION**

**BRANCH: COMMON**

**SEM: 1<sup>ST</sup>**

**NAME OF THE FACULTY: ER. DEVI PRASAD MISHRA & D. PANIGRAHI**

			Topic to be taken			Actual topic taken		
Sl. No	Topic/Module	No. of period	Details of the topics	Date	Topic No.	Topic Name	Date	Remarks
1 & 2	COMPUTER ORGANISATION COMPUTER SOFTWARE:	06	<b>COMPUTER ORGANISATION</b> 1.1 Introduction to Computer Evolution of Computers Generation of Computers Classification of Computers 1.2 Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices. 1.3 Computer Memory and Classification of Memory	<b>11.09.2023</b>  <b>TO</b>  <b>14.09.2023</b>	<b>1.1</b>  <b>1.2</b>  <b>1.3</b>	Introduction to Computer Evolution of Computers Generation of Computers Classification of Computers Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices. Computer Memory and Classification of Memory	<b>11.09.2023</b>  <b>12.09.2023</b>  <b>14.09.2023</b>	

2			<b>COMPUTER SOFTWARE</b> 2.1 Software concept, System software, Application software Overview of Operating System Objectives and Functions of O.S.  2.2 Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX  2.3 Programming Languages Compiler, interpreter Computer Virus , Different Types of computer virus, Detection and prevention of Virus, Application of computers in different Domain	16.09.2023  TO  20.09.2023	2.1 Software concept, System software, Application software Overview of Operating System Objectives and Functions of O.S ,  2.2 Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX .  2.3 Programming Languages Compiler, interpreter Computer Virus , Different Types of computer virus. Detection and prevention of Virus. Application of computers in different Domain	16.09.2023  18.09.2023  20.09.2023	
3 & 4	<b>COMPUTER NETWORK AND INTERNET. FILE MANAGEMENT AND DATA PROCESSING:</b>	07	<b>COMPUTER NETWORK AND INTERNET:</b> 3.1 Networking concept, Protocol, Connecting Media, Date Transmission mode Network Topologies, Types of Network  3.2 Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC.  3.3 Internet Services like E-Mail, WWW, FTP, Chatting. 3.4 Internet Conferencing. Electronic Newspaper & Online Shopping. Different types of Internet connectivity and ISP	24.09.2023  TO  04.10.2023	3.1 Networking concept, Protocol, Connecting Media, Date Transmission mode Network Topologies, Types of Network  3.2 Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC .  3.3 Internet Services like E-Mail, WWW, FTP, Chatting.  3.4 Internet Conferencing, Electronic Newspaper & Online Shopping Different types of Internet connectivity and ISP	24.09.2023  28.09.2023  02.10.2023  04.10.2023	

4			<b>FILE MANAGEMENT AND DATA PROCESSING</b> 4.1 Concept of File and Folder File Access and Storage methods. 4.2 Sequential, Direct, ISAM Data Capture, Data storage 4.3 Data Processing and Retrieval	<b>06.10.2023</b>  <b>TO</b>  <b>11.10.2023</b>	<b>4.1</b> Concept of File and Folder File Access and Storage methods.  <b>4.2</b> Sequential, Direct, ISAM Data Capture, Data storage  <b>4.3</b> Data Processing and Retrieval	<b>06.10.2023</b>  <b>08.10.2023</b>  <b>11.10.2023</b>	
5 & 6	<b>PROBLEM SOLVING METHODOLOGY</b>  <b>OVERVIEW OF C PROGRAMMING LANGUAGE.</b>	10	<b>PROBLEM SOLVING METHODOLOGY</b> 5.1 Algorithm, Pseudo code and Flowchart Generation of Programming Languages  5.2 Structured Programming Language  5.3 Examples of Problem solving through Flowchart	<b>14.10.2023</b>  <b>TO</b>  <b>18.10.2023</b>	<b>5.1</b> Algorithm, Pseudo code and Flowchart Generation of Programming Languages  <b>5.2</b> Structured Programming Language  <b>5.3</b> Examples of Problem solving through Flowchart	<b>14.10.2023</b>  <b>18.10.2023</b>  <b>21.10.2023</b>	
6			<b>OVERVIEW OF C PROGRAMMING LANGUAGE</b> 6.1 Constants, Variables and Data types in C 6.2 Managing Input and Output operations. 6.3 Operators, Expressions. 6.4 Type conversion & Typecasting  6.5 Decision Control and Looping Statements (If, If-else, If-else-if, Switch,  6.6 While, Do while, For, Break, Continue & Goto) 6.7 Programming Assignments using the above features	<b>02.11.2023</b>  <b>TO</b>  <b>18.11.2023</b>	<b>6.1</b> Constants, Variables and Data types in C. <b>6.2</b> Managing Input and Output operations. <b>6.3</b> Operators, Expressions. <b>6.4</b> Type conversion & Typecasting  <b>6.5</b> Decision Control and Looping Statements (If, If-else, If-else-if, Switch <b>6.6</b> While, Do while, For, Break, Continue & Goto) <b>6.7</b> Programming Assignments using the above features	<b>02.11.2023</b>  <b>04.11.2023</b>  <b>06.11.2023</b>  <b>08.11.2023</b>  <b>12.11.2023</b>  <b>16.11.2023</b>  <b>18.11.2023</b>	

7	ADVANCED FEATURES OF C	8	ADVANCED FEATURES OF C: 7.1 Functions and Passing Parameters to the Function.(Call by Value and Call by Reference)  7.2 Scope of Variables, Storage Classes,  7.3 Recursion Function, Types of Recursion  7.4 One Dimensional Array, Multidimensional Array  7.5String Operations and Pointer Expression.  7.6 Pointer Arithmetic  7.7 Programming Assignments using the above features. 7.8 Structure & Union (Only concepts, No Programming).	22.11.2023  TO  14.12.2023	7.1  7.2  7.3  7.4  7.5  7.6  7.7  7.8	Functions and Passing Parameters to the Function.(Call by Value and Call by Reference)  Scope of Variables, Storage Classes  Recursion Function, Types of Recursion  One Dimensional Array, Multidimensional Array  String Operations and Pointer Expression.  Pointer Arithmetic  Programming Assignments using the above features. Structure & Union (Only concepts, No Programming).	22.11.2023  27.11.2023  01.12.2023  02.12.2023  04.12.2023  08.12.2023  10.12.2023  14.12.2023	7

*D. P. Singh*  
**HoD**