

Name: **MR. KIRANPAL SINGH VIRK**  
 Subject: Paper – I : Programming in C  
 (Monday, Tuesday, Wednesday)

Name: **DR. BHARAT BHUSHAN**  
 Subject: Paper – II : Logical Organization of Computers  
 (Thursday, Friday, Saturday)

Class and Section: **B.Sc. Computer Science (2<sup>nd</sup> Semester) Theory**

<b>Week</b>	<b>Date</b>	<b>Topic</b>
<b>1</b>	1-Jan-19	Overview of C: History & Importance of C, Structure of a C Program.
	2-Jan-19	Overview of C: History & Importance of C, Structure of a C Program. Elements of C: C character set, identifiers and keywords,
	3-Jan-19	Information Representation: Number Systems,
	4-Jan-19	Information Representation: Number Systems,
	5-Jan-19	Information Representation: Number Systems,
	6-Jan-19	<b>Sunday</b>
	<b>2</b>	7-Jan-19
8-Jan-19		Data types, Constants and Variables, Assignment statement, Symbolic constant.
9-Jan-19		Input/output: Unformatted & formatted I/O function, Input functions (scanf(), getch(), getche(), getchar(), gets()), output functions (printf(), putch(), putchar(), puts()).
10-Jan-19		Binary Arithmetic,
11-Jan-19		Binary Arithmetic,
12-Jan-19		Binary Arithmetic,
13-Jan-19		<b>Sunday</b>
<b>3</b>	14-Jan-19	Input/output: Unformatted & formatted I/O function, Input functions (scanf(), getch(), getche(), getchar(), gets()), output functions (printf(), putch(), putchar(), puts()).
	15-Jan-19	Input/output: Unformatted & formatted I/O function, Input functions (scanf(), getch(), getche(), getchar(), gets()), output functions (printf(), putch(), putchar(), puts()).
	16-Jan-19	Operators & Expression: Arithmetic
	17-Jan-19	Fixed-point and Floating point representation of numbers,
	18-Jan-19	Fixed-point and Floating point representation of numbers,
	19-Jan-19	BCD Codes
	20-Jan-19	<b>Sunday</b>
<b>4</b>	21-Jan-19	Operators & Expression: relational
	22-Jan-19	Operators & Expression: logical
	23-Jan-19	Operators & Expression : bitwise, unary, assignment, conditional operators and special operators.

	24-Jan-19	Error detecting and correcting codes
	25-Jan-19	<b>Sir Chhoti Ram Jayanti</b>
	26-Jan-19	<b>Republic Day</b>
	27-Jan-19	<b>Sunday</b>
<b>5</b>	28-Jan-19	Operators & Expression : bitwise, unary, assignment, conditional operators and special operators.
	29-Jan-19	Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity.
	30-Jan-19	Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity.
	31-Jan-19	Character Representation – ASCII, EBCDIC.

<b>Week</b>	<b>Date</b>	<b>Topic</b>
<b>1</b>	1-Feb-19	Binary Logic: Boolean Algebra,
	2-Feb-19	Boolean Theorems
	3-Feb-19	<b>Sunday</b>
<b>2</b>	4-Feb-19	Decision making & branching: Decision making with IF statement, IF-ELSE statement,
	5-Feb-19	Nested IF statement, ELSE-IF ladder, switch statement
	6-Feb-19	Nested IF statement, ELSE-IF ladder, switch statement, goto statement.
	7-Feb-19	Boolean Functions and Truth Tables,
	8-Feb-19	Boolean Functions and Truth Tables, Canonical and Standard forms of Boolean functions,
	9-Feb-19	Simplification of Boolean Functions – Venn Diagram, Karnaugh Maps.
	10-Feb-19	<b>Vasant Panchami / Sunday</b>
<b>3</b>	11-Feb-19	Assignment 1 (Unit 1 & Unit 2) Last Date for Submission: 25-Feb-2019
	12-Feb-19	Class Test : UNIT 1
	13-Feb-19	Class Test : UNIT 2
	14-Feb-19	Simplification of Boolean Functions – Venn Diagram, Karnaugh Maps.
	15-Feb-19	Assignment 1 (Unit 1 & Unit 2) Last Date for Submission: 28-Feb-2019
	16-Feb-19	Class Test : UNIT 1
	17-Feb-19	<b>Sunday</b>
<b>4</b>	18-Feb-19	Decision making & looping: while & do-while
	19-Feb-19	<b>Guru Ravi Dass Birthday</b>

	20-Feb-19	Decision making & looping: For, while, and do-while loop
	21-Feb-19	Class Test : UNIT 2
	22-Feb-19	Digital Logic: Basic Gates – AND, OR, NOT,
	23-Feb-19	Digital Logic: Basic Gates – AND, OR, NOT,
	24-Feb-19	<b>Sunday</b>
<b>5</b>	25-Feb-19	jumps in loops, break, continue statement.
	26-Feb-19	jumps in loops, break, continue statement.
	27-Feb-19	Functions: Definition, prototype
	28-Feb-19	Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc.

<b>Week</b>	<b>Date</b>	<b>Topic</b>
<b>1</b>	1-Mar-19	<b>Maha Shivratri</b>
	2-Mar-19	Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc.
	3-Mar-19	<b>Sunday</b>
<b>2</b>	4-Mar-19	Functions: Definition, prototype
	5-Mar-19	Functions: passing parameters
	6-Mar-19	Functions: passing parameters
	7-Mar-19	Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc.
	8-Mar-19	Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor,
	9-Mar-19	Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor,
	10-Mar-19	<b>Sunday</b>
<b>3</b>	11-Mar-19	Functions: passing parameters, recursion
	12-Mar-19	Functions: passing parameters, recursion
	13-Mar-19	Functions: recursion Assignment 2 (Unit 3) Last Date for Submission: 25-Mar-2019
	14-Mar-19	Encoders, Decoders, Multiplexers,
	15-Mar-19	Encoders, Decoders, Multiplexers,
	16-Mar-19	Demultiplexers, Comparators, Code Converters Assignment 2 (Unit 3) Last Date for Submission: 28-Mar-2019
	17-Mar-19	<b>Sunday</b>
	<b>4</b>	18-Mar-19

	19-Mar-19	<b>University Holidays</b>
	20-Mar-19	<b>University Holidays</b>
	21-Mar-19	<b>University Holidays</b>
	22-Mar-19	<b>University Holidays</b>
	23-Mar-19	<b>University Holidays</b>
	24-Mar-19	<b>Sunday</b>
<b>5</b>	25-Mar-19	Class Test : UNIT 3
	26-Mar-19	Storage classes in C: auto
	27-Mar-19	Storage classes in C: auto
	28-Mar-19	Class Test : UNIT 3
	29-Mar-19	Sequential Logic: Characteristics, Flip-Flops,
	30-Mar-19	Sequential Logic: Characteristics, Flip-Flops,
	31-Mar-19	<b>Sunday</b>

<b>Week</b>	<b>Date</b>	<b>Topic</b>
<b>1</b>	1-Apr-19	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
	2-Apr-19	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
	3-Apr-19	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
	4-Apr-19	Clocked RS, D type,
	5-Apr-19	JK, T type and Master- Slave flip-flops.
	6-Apr-19	Master- Slave flip-flops.
	7-Apr-19	<b>Sunday</b>
<b>2</b>	8-Apr-19	Arrays: Definition, types
	9-Apr-19	Arrays: Definition, types
	10-Apr-19	Arrays: initialization, processing an array.
	11-Apr-19	State table, state diagram. Flip-flop excitation tables
	12-Apr-19	State table, state diagram. Flip-flop excitation tables
	13-Apr-19	Shift registers : serial in parallel out and parallel in parallel out.
	14-Apr-19	<b>Vaisakhi / Ambedkar Jyanti / Sunday</b>
<b>3</b>	15-Apr-19	Arrays: initialization, processing an array.
	16-Apr-19	Arrays: initialization, processing an array.
	17-Apr-19	<b>Mahavir Jayanti</b>

	18-Apr-19	Shift registers : serial in parallel out and parallel in parallel out.
	19-Apr-19	Designing counters – Asynchronous and Synchronous
	20-Apr-19	Binary Counters, Modulo-N Counters and Up-Down Counters
	21-Apr-19	<b>Sunday</b>
<b>4</b>	22-Apr-19	Structure
	23-Apr-19	Structure
	24-Apr-19	Structure and Union.
	25-Apr-19	Binary Counters, Modulo-N Counters and Up-Down Counters
	26-Apr-19	Class Test : UNIT 4 & Revision
	27-Apr-19	Revision
	28-Apr-19	<b>Sunday</b>
<b>5</b>	29-Apr-19	Class Test : UNIT 4 & Revision
	30-Apr-19	Revision