I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- MM501 (Functional Analysis) **Class: M.Sc (F)**

Name of the Teachers (Section wise): Gitika Dureja

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Normed Linear Space
		Banach spaces and examples
		Subspace of a banach space
		Related Examples
		Completion of a Normed Space
SUNDAY - 08.11.2020		
2	November (9-13)	Quotient Space of a normed linear space
		Related numericals
		Completion of a Normed Space
		Product of Normed spaces
		Numericals on product of normed spaces
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Finite Dimensional Normed Space
		Related Theormes
		Related Theormes
		Related Numericals
		Subspace of a finite dimensional normed space
		Related Theormes
SUNDAY - 22.11.2020		
4	November (23-28)	Problem Discussion
		Equivalent Norms Concept
		Numericals on equivalent norms
		Numericals on equivalent norms
		Compactness and finite dimension concept
		Related Numericals
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	F. Riesz's Lemma
		Bounded and continuous linear operators
		Linear and bounded linear functionals
		Canonical mapping and linear operators
		Dual spaces
SUNDAY - 06.12.2020		

6	**December (07-12)**	Examples of Dual spaces
		Problem Discussion
		Hahn-Banach theorem for real linear spaces
		Complex Linear spaces and normed linear spaces
		Complex Linear spaces and normed linear spaces
		Application of bdd linear functionals on C[a,b]
SUNDAY - 13.12.2020		
7	**December (14-19)**	Reisz representation thm for bdd linear functionals
		Adjoint operator
		Norm of adjoint operator
		Reflexive spaces
		Uniform Boundedness Theorem
		Fourier series concept
SUNDAY - 20.12.2020		
8	**December (21-24) (26)**	Strong and weak convergence in lp space
		Strong and weak convergence in lp space
		Convergence of sequences of operators
		Strong operator convergence
		Weak operator convergence
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	**December (28-31) January (1-2)**	Strong & weak convergence of a seq.of functionals
		Closed Graph Theorem
		Open Mapping Theorem
		Problem Discussion
		Inner Product Spaces
		Hilbert Space
SUNDAY - 03.01.2021		
10	**January (4-9)**	Examples of hilbert space
		Pythagorean Theorem
		Apollonius identity
		Numricals Based on inner product space
		Numricals Based on inner product space
		Problem Discussion
SUNDAY - 10.01.2021		
11	**January (11-16)**	Test
		Schwarz inequality
		Triangular Inequality
		Continuity of inner product space
		Continuity of inner product space
		Subspace of hilbert space
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	Related Theorems
		Orthogonal Complements
		Related Numericals
		Direct sum
		Related Numericals
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	Projection Theorem
		Characterization of sets in hilbert spaces
		Problem Discussion
		Test
		Orthonormal sets and sequences
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	Bessel's inequality
		Series related to orthonormal sequences and sets
		Complete orthonormal sequences and sets
		Parseval's identity
		Seperable Hilbert spaces
		Representations of functionals on hilbert spaces
SUNDAY - 07.02.2021		
15	**February (08-13)**	Reisz representation thm for bdd linear functionals on hilbert
		Reisz representation thm for bdd sesquilinear functionals
		Hilbert adjoint operator
		Existence and uniqueness of adjoint operator
		Properties of hilbrt adjoint operator
		Problem Discussion
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	Self adjoint operator
		Unitary and normal operators
		Related Numericals
		Positive and projection operators
		Problem Discussion
		Test

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SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- MM502(ANALYTICAL MECHANICS AND CALCULUS OF VARIATION) **CLASS: M.Sc (F)**

Name of the Teachers (Section wise): GITIKA DUREJA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Euler's Theorm And Its Particular Cases
		Numericals Based on Euler theorem
		Shortest Distance Problem
		Minimum Surface of revolution
		Brachistochrone Problem
SUNDAY - 08.11.2020		
2	November (9-13)	Isoperimetric Problem
		Numericals Based on Isoperimetric Problem
		Geodesics
		Geodesics
		Fundamental Lemma of Cal. of Variation
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Generalisation of Euler Eqn to n dep. Functions
		Related Numericals
		Functional Dep on Higher Order Derivatives
		Related Numericals
		Natural Boundary and Transition Conditions
		Related Numericals
SUNDAY - 22.11.2020		
4	November (23-28)	Variational Derivative & Variable End Point
		Problem Discussion
		Generalized Coordinates,Velocity
		Generalized Displacement,Force,Potential
		Holonomic and Non-Holonomic Systems
		Possible And Virtual Displacements
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Lagrange's Equations of First Kind
		Lagrange's Equations of Second Kind
		Uniqueness of Solution
		Theorem on variation of total Energy
		Potential, Gyroscopic and DIssipative Forces
SUNDAY - 06.12.2020		

6	December (07-12)	Lagrange's Eqn For Conservative Fields
		Problem Discussion
		Hamilton’s Variables
		Hamilton Canonical Equations
		Routh’s Equations
		Cyclic Coordinates Poisson’s Bracket
SUNDAY - 13.12.2020		
7	December (14-19)	Cyclic Coordinates Poisson’s Bracket
		Poisson’s Identity
		Poisson’s Identity
		Hamilton's Principle
		Hamilton's Principle
		Poincare-Carton Integral Invariant
SUNDAY - 20.12.2020		
8	December (21-24) (26)	Poincare-Carton Integral Invariant
		Poincare-Carton Integral Invariant
		Poincare-Carton Integral Invariant
		Jacobi's Equations
		Jacobi's Equations
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	Jacobi's Equations
		Principle of Least Action
		Principle of Least Action
		Principle of Least Action
		Whitkar Equation
		Problem Discussion
SUNDAY - 03.01.2021		
10	January (4-9)	Problem Discussion
		Test
		Canonical and Free Canonical Transformations
		Canonical and Free Canonical Transformations
		Canonical and Free Canonical Transformations
		Related Numericals
SUNDAY - 10.01.2021		
11	January (11-16)	Method of sep. of var. to solve Hamilton Jacobi eqn
		Method of sep. of var. to solve Hamilton Jacobi eqn
		Method of sep. of var. to solve Hamilton Jacobi eqn
		Related Numericals
		Lagrange Brackets and Poisson Brackets
		Lagrange Brackets and Poisson Brackets
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	Lagrange Brackets and Poisson Brackets
		Lagrange Brackets and Poisson Brackets
		Properties of Lagrange and poission brackets
		Related Numericals
		Problem Discussion
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	Canonical and Free Canonical Transformations
		Canonical and Free Canonical Transformations
		Related Numericals
		Problem Discussion
		Test
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	Jacobi Theorm
		Jacobi Theorm
		Theorem on Variation of Total Energy
		Theorem on Variation of Total Energy
		Theorem on Variation of Total Energy
		Theorem on Variation of Total Energy
SUNDAY - 07.02.2021		
15	**February (08-13)**	Problem Discussion
		Related Numericals
		Related Numericals
		Canonical and Free Canonical Transformations
		Canonical and Free Canonical Transformations
		Problem Discussion
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	Invariance of Lagrange Brackets
		Invariance of Lagrange Brackets
		Invariance of Poission Brackets
		Invariance of Poission Brackets
		Problem Discussion
		Test

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SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- MM503(iv) (Number Theory) **Class: M.Sc (Final)**

Name of the Teachers (Section wise): Amit

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Introduction to basic Number theory
		Division Algorithm
		Divisibility and properties
		Gauss theorem
		GCD and LCM
SUNDAY - 08.11.2020		
2	November (9-13)	Examples based on gcd and division Algorithm
		Examples based on division Algorithm
		some theorems on divisibility
		The Linear Diaphontine equation
		Numericals on Linear Diaphontine equation
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Theorems based on Diaphontine equation
		examples based on Diaphontine equation
		Linear Congruence
		Related theorems on linear Congruences
		Cancellation Law
		Unimodular Matrix and related theorem
SUNDAY - 22.11.2020		
4	November (23-28)	Pythagorean triplet
		Related theorems on pythagorean triplet
		Primitive Solutions
		theorems based on Primitive solutions
		examples on pythagorean triplet
		Assorted examples
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	assorted examples
		Rational points on curve
		previous year questions Discussion based on unit 1
		Farey Sequences and properties
		Farey table and its properties
SUNDAY - 06.12.2020		

6	**December (07-12)**	Theorems based on Farey Sequences
		Examples on farey Sequences
		theorems on Farey Sequences
		theorems on Farey Sequences
		some more examples on Farey Sequences
		Rational Approximation
SUNDAY - 13.12.2020		
7	**December (14-19)**	Related theorems on Rational Approximation
		examples on Rational Approximation
		Irrational Numbers
		theorems on irrational Numbers
		theorems on irrational Numbers
		theorems on irrational Numbers
SUNDAY - 20.12.2020		
8	**December (21-24) (26)**	Examples based on irrational numbers
		Examples on irrational numbers
		some more examples
		The Geometry of numbers
		Blichfeldts principle
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	**December (28-31) January (1-2)**	Minkowski convex body theorem
		Minkowski convex body theorem
		some examples
		Minkowski convex body theorem for General lattics
		Langranges four square theorem
		previous year questions Discussion based on unit 2
SUNDAY - 03.01.2021		
10	**January (4-9)**	Continued Fraction
		Related theorems
		examples on continued Fraction
		Some more theorems on continued Fraction
		Results on continued Fraction
		Infinite continued Fraction
SUNDAY - 10.01.2021		
11	**January (11-16)**	Related theorems
		Related theorems
		Examples on continued Fraction
		examples on continued Fraction
		Limit form of infinite continued Fraction
		Some related theorems
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	theorems on limit form of infinite continued Fraction
		Some examples on continued Fraction
		Some examples on continued Fraction
		Some examples on continued Fraction
		Approximation to irrational numbers
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	Related theorems
		Hurwitz theorem
		Best possible Approximation theorem
		Related theorems
		periodic continued fraction
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	previous year questions Discussion based on unit 3
		Problem Discussion
		Partition
		Related theorems on Partition
		Ferrers graph
		Related theorems
SUNDAY - 07.02.2021		
15	**February (08-13)**	Generating function
		Related theorems on generating function
		Eulers identity
		Eulers formula, bounds on P(n)
		some more theorems
		examples
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	Jacobi formula
		Related theorems
		A divisibility property
		some theorem on P(n)
		previous year questions Discussion based on unit 4
		problem Discussion

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Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- mm504(iii) (Algebraic Coding Theory) **Class: M.SC Final**

Name of the Teachers (Section wise): Ms. MANSI BANSAL

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	BLOCK CODE,DISTANCE FUNCTION
		MINIMUM DISTANCE,GROUP CODE
		DECODING PRINCIPLE OF MAXIMAL LIKELIHOOD
		BINARY ERROR DETECTING AND CORRECTING CODES
		PARITY CHECK CODE
SUNDAY - 08.11.2020		
2	November (9-13)	DOUBLE AND TRIPLE REPITION CODES
		GENERATOR MATRIX AND MATRIX CODES
		PARITY CHECK MATRIX
		PARITY CHECK MATRIX THEOREMS
		PARITY CHECK MATRIX AND GENERATOR MATRIX THEOREM
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	FINDING CODES WITH THE HELP OF GENERATOR MATRIX
		DUAL CODE
		POLYNOMIAL CODE
		POLYNOMIAL CODE THEOREMS
		EXPONENT OF A POLYNOMIAL OVER THE BINARY FIELD
		HAMMING CODE
SUNDAY - 22.11.2020		
4	November (23-28)	MINIMUM DISTANCE OF HAMMING CODE
		PROBLEM DISCUSSION
		TEST
		FINITE FIELD
		FINITE FIELD THEOREMS
		FINITE FIELD THEOREMS
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	FINITE FIELD THEOREMS
		FINITE FIELD THEOREMS
		IRREDUCIBILITY OF POLYNOMIALS OVER FINITE FIELDS
		IRREDUCIBILITY POLYNOMIALS OVER FINITE FIELDS
		FINDING IRREDUCIBLE POLYNOMILAS OVER FINITE FIELDS
SUNDAY - 06.12.2020		

6	**December (07-12)**	PRIMITIVE POLYNOMIAL OVER FINITE FIELD
		PRIMITIVE POLYNOMIAL THEOREM
		PROBLEMS BASED ON FINDING PRIMITIVE POLYNOMIAL
		PROBLEMS BASED ON FINDING PRIMITIVE POLYNOMIAL
		PROBLEMS BASED ON FINDING PRIMITIVE POLYNOMIAL
		PROBLEM DISCUSSION
SUNDAY - 13.12.2020		
7	**December (14-19)**	AUTOMORPHISM GROUP OF GF(Qn)
		AUTOMORPHISM GROUP OF GF(Qn)
		NORNAL BASIS
		BOSE-CHAUDHURI-HOCQHENGHEM (BCH) CODES
		THEOREMS ON BCH CODES
		THEOREMS ON BCH CODESS
SUNDAY - 20.12.2020		
8	**December (21-24) (26)**	CONSTRUCTION OF BCH CODES
		PROBLEM BASED ON BCH CODES
		PROBLEM BASED ON BCH CODES
		PROBLEM DISCUSSION
		TEST
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	**December (28-31) January (1-2)**	LINEAR CODES
		GENERATER MATRICES OF LINEAR CODES
		PERMUTATION MATRIX
		THEOREMS ON PERMUTATION MATRIX
		THEOREMS ON PERMUTATION MATRIX
		RELATION BETWEEN GENERATOR AND PARITY CHECK MATRIX OF A LINEAR CODES OVER A FINITE FIELD
SUNDAY - 03.01.2021		
10	**January (4-9)**	DUAL CODE OF A LINEAR CODE
		THEOREMS ON DUAL CODE
		THEOREMS ON DUAL CODE
		SELF DUAL CODE
		WEIGHT DISTRIBUTION OF A LINEAR CODE
		WEIGHT ENUMERATOR OF A LINEAR CODE
SUNDAY - 10.01.2021		
11	**January (11-16)**	MACWILLIANS IDENTITY FOR BINARY LINEAR CODES
		PROBLEM DISCUSSION
		MAXIMUM DISTANCE SEPERABLE CODES (MDS CODES)
		EXAMPLES OF MDS CODES
		CHARACTERIZATION OF MDS CODES IN TERMS OF GENERATOR AND PARITY CHECK MATRICES
		DUAL CODE OF A MDS CODE
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	TRIVIAL MDS CODE
		WEIGHT DISTRIBUTION OF A MDS CODE
		NUMBER OF CODE WORDS OF MINIMUM DISTANCE d IN A MDS CODE
		REED SOLOMON CODES
		REED SOLOMON CODES
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	PROBLEM DISCUSSION
		HADAMARD MATRICES
		EXISTENCE OF AHADAMARD MATRIX OF ORDER N
		HADAMARD CODES FROM HADAMARD MATRICES
		HADAMARD CODES FROM HADAMARD MATRICES
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	CYCLIC CODE
		GENERATOR MATRIX AND MATRIX CODES
		CHECK POLYNOMIAL OF A CYCLIC CODE
		EQUIVALENT AND DUAL CODE OF A CYCLIC CODE
		IDEMPOTENT GENERATOR OF A CYCLIC CODE
		HAMMING CODE AS CYCLIC CODE
SUNDAY - 07.02.2021		
15	**February (08-13)**	BCH CODE AS A CYCLIC CODE
		PERFECT CODES
		PERFECT CODES
		THE GILBERT-VARSHA-MOVE AND PLOTKIN BOUNDS
		THE GILBERT-VARSHA-MOVE AND PLOTKIN BOUNDS
		SELF DUAL BINARY CYCLIC CODES
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	PROBLEM DISCUSSION
		TEST
		REVISION
		REVISION
		REVISION
		REVISION

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SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- MM-505 (i)- INTEGRAL EQUATION **CLASS:- M.Sc (F)**

Name of the Teachers (Section wise): **MANISH KUMAR**

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Definition of integral equations and its type
		eigen value and eigen function
		types of kernal
		The inner or scaler product
SUNDAY - 08.11.2020		
2	November (9-13)	Reduction to a system of algebraic equations
		Examples
		Examples
		Examples
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Fredholm alternative thm
		Continue
		discussion on thm
		Examples
SUNDAY - 22.11.2020		
4	November (23-28)	Examples
		Class discussion
		class test
		Approximate method
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Method of succesive approximation
		Newmann series
		Resolvent kernal
SUNDAY - 06.12.2020		

6	**December (07-12)**	Examples based on succesive approximation
		Examples
		Examples
		Iterative scheme for fredholm integral equation
SUNDAY - 13.12.2020		
7	**December (14-19)**	Iterative scheme for volterra equation
		Conditions of uniform convergence
		Uniqueness of series solution
		Examples
SUNDAY - 20.12.2020		
8	**December (21-24) (26)**	Some results about resolvent kernal
		Continue
		Application of iterative scheme to volterra equations
		Examples
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	**December (28-31) January (1-2)**	Meethod of solution of fredholm equation
		Fredholm first thm
		Fredholm second thm
		Class discussion
SUNDAY - 03.01.2021		
10	**January (4-9)**	Symmetric kernal introduction
		complex hilbert space
		orthonormal system of function
		Riesz Fisher Thm
SUNDAY - 10.01.2021		
11	**January (11-16)**	A complete two dimensional orthonormal set
		Fundamental Property of eigen value and function
		expansion in eigen function and bilinear form
		Continue
		Class discussion
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	Hilbert schmidt thm
		Continue
		definite kernal and Mercers thm
		Solution of symmetric integral equation
		Approximation of a general L2 kernal
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	The operator method in the theory of integral equation
		Rayleigh Ritz method for finding the egienvalue
		Examples
		Examples
		Examples
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	The Abels integral equation
		Examples
		Examples
		Inversion formula for singlur integral equation
		Examples
		Examples
SUNDAY - 07.02.2021		
15	**February (08-13)**	Kernel of the equation of the types h(s)-h(t)
		Examples
		Examples
		Cauchy's principal value for integral solutions
		Cauchy's type singular integral equations
		Examples
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	Closed contour
		Unclosed contour
		Riemann Hilbert problem
		Examples
		The Hilbert kernel
		Solution of the Hilbert type singular integral equation

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Weekly Lesson Plan (Odd Semester) **(3rd Semester)**

Name of the Paper:- MM- 506 - PRACTICAL - III **CLASS: M.Sc (F)**

Name of the Teachers (Section wise): Mansi Bansal

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	INTRODUCTION TO FORTRAN
		WRITING A PROGRAM
		INPUT STATEMENT
		PROGRAM EXAMPLES
		PROBLEM DISCUSSION
SUNDAY - 08.11.2020		
2	November (9-13)	CONSTANTS
		SCALAR VARIABLE
		DECLARING VARIABLE NAMES
		IMPLICIT DECLARATION
		NAMED CONSTANTS
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	PROBLEM DISCUSSION
		ARITHMETIC OPERATORS AND MODES OF EXPRESSION
		INTEGER EXPRESSION AND REAL EXPRESSION
		ASSIGNMENT OPERATOR
		DEFINING VARIABLES
		INTRINSIC FUNCTION
SUNDAY - 22.11.2020		
4	November (23-28)	PROBLEM DISCUSSION
		LIST-DIRECTED INPUT STATEMENTS
		LIST-DIRECTED OUTPUT STATEMENTS
		RELATIONAL OPERATORS
		THE BLOCK IF CONSTRUCR
		EXAMPLE PROGRAM USING IF CONSTRUCT
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	PROBLEM DISCUSSION
		THE BLOCK DO LOOP
		COUNT CONTROL DO LOOP
		RULES FOR DO LOOP
		LOGICAL EXPRESSION
SUNDAY - 06.12.2020		

6	December (07-12)	LOGICAL CONSTANTS,VARIABLES AND EXPRESSIONS
		PRECEDENCE RULE FOR LOGICAL OPERATOR
		THE CASE STATEMENT
		PROBLEM DISCUSSION
		PROGRAM-USE LOGICAL OPERATORS IN COMPUTING THE COMPOUND INTEREST
		FUNCTION SUBPROGRAM
SUNDAY - 13.12.2020		
7	December (14-19)	SYNTAX RULES FOR FUNCTION SUBPROGRAM
		GENRIC FUNCTION
		PROGRAM-USE FUNCTION FOR SIMPLE INTEREST TO DISPLAY YEAR-WISE COMPOUND INTEREST
		SUBROUTINES
		PROGRAM-SUBROUTINE PROGRAM TO CHECK WHETHER THE THREE POINTS ARE COLLINEAR
		PROBLEM DISCUSSION
SUNDAY - 20.12.2020		
8	December (21-24) (26)	ARRAY AND ARRAY VARIABLES
		USE OF MULTIPLE SUBSCRIPT
		INITIALIZING ARRAYS
		WHOLE ARRAY OPERATIONS
		PROGRAM-USE ALLOCATABLE SIZE DECLARATION FOR GIVEN SET OF POINTS IN A PLANE AND FIT A STRAIGHT LINE
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	PROBLEM DISCUSSION
		FORMAT DESCRIPTION FOR NUMERICAL DATA -READ STATEMENT
		FORMAT DESCRIPTION FOR PRINT STATEMENT
		MULTI RECORD FORMAT
		PRINTING CHARACTER STRINGS
		GENERALIZED INPUT/OUTPUT STATEMENT
SUNDAY - 03.01.2021		
10	January (4-9)	PROGRAM-PROGRAM TO DISPLAY THE PROCEDURE OF FORMAT RESCAN RULE AND TAB-EDIT DESCRIPTORS
		PROBLEM DISCUSSION
		PROGRAM-TO DISPLAY THE USE OF WHOLE-ARRAY OPERATIONS ON NON-CONFORMABLE ARRAYS
		PROCESSING STRINGS OF CHARACTERS-CHARACTER DATA TYPE
		MANIPULATING STRINGS
		MANIPULATING STRINGS
SUNDAY - 10.01.2021		
11	January (11-16)	COMPARING CHARACTER STRINGS
		PROBLEM DISCUSSION
		PROGRAM-USE STRING OPERATIONS TO FIND IF A GIVEN STRING IS PALINDROME OR NOT

11	January (11-16)	PROGRAM-COMPUTE A GIVEN DEFINITE INTEGRAL IN A SUBROUTINE USING INTEGRAND AS A DUMMY ARGUMENT
		PROBLEM DISCUSSION
		DEFINING DERIVED TYPES
SUNDAY - 17.01.2021		

12	**January (18-19) (21-23)**	USE OF DERIVED TYPES
		USING DERIVED TYPES IN PROCEDURES
		USING DERIVED TYPES IN ARRAYS
		PROGRAM USING DERIVED DATA TYPE
		PROBLEM DISCUSSION
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	**January (25) (27-30)**	COMPLEX DATA TYPE
		PROGRAM-TO SOLVE A QUADRATIC EQUATION USING COMPLEX DATA TYPE
		PROBLEM DISCUSSION
		CREATING A SEQUENTIAL FILE
		OPEN COMMAND
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	**February (01-06)**	OPEN COMMAND
		SEARCHING A SEQUENTIAL FILE
		UPDATING A SEQUENTIAL FILE
		DIRECT ACCESS FILE
		DIRECT ACCESS FILE
		PROGRAM-SUBROUTINE PROGRAM TO MULTIPLY TWO GIVEN MATRICES AND USE RESOURCE FILE IN MAIN PROGRAM
SUNDAY - 07.02.2021		
15	**February (08-13)**	PROBLEM DISCUSSION
		POINTER DATA TYPE
		USE OF POINTERS
		ABSTRACT DATA TYPESWITH MODULE
		ABSTRACT DATA TYPESWITH MODULE
		PROGRAM USING ABSTRACT DATA TYPE
SUNDAY - 14.02.2021		
16	**February (15 - 20)**	PROBLEM DISCUSSION
		REVISION
		REVISION
		REVISION
		REVISION
		REVISION