



# Aggarwal College Ballabgarh

## LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Ms. Poonam Gupta\_

Designation/ Department: Assistant Professor in Mathematics

CLASS: B.SC. (Hons.) Maths

SEMESTER: Fourth

SECTION:

SUBJECT: Special Function and Integral Transforms

Week		
1	7-1-2025	Power Series: Definition, radius of convergence
	8-1-2025	Shifting of Summation index
	9-1-2025	Analytic function, ordinary and singular points
	10-1-2025	Power series solution
	11-1-2025	Continued
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	Continued
	14-1-2025	Continued
	15-1-2025	Frobenius Method
	16-1-2025	Continued
	17-1-2025	Continued
	18-1-2025	Continued
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	Other method of power series solution
	21-1-2025	Continued
	22-1-2025	Continued
	23-1-2025	Continued

	24-1-2025	Bessel's equation
	25-1-2025	Bessel's Function
	26-1-2025	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
4	27-1-2025	Recurrence relations for Bessel's functions
	28-1-2025	Continued
	29-1-2025	Continued
	30-1-2025	Generating function
	31-1-2025	Related examples
	1-2-2025	Continued
	2-2-2025	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
5	3-2-2025	Orthogonality relation of Bessel's function
	4-2-2025	Doubts related to the topic
	5-2-2025	Legendre's equation
	6-2-2025	Rodrigue's formula
	7-2-2025	Generating function
	8-2-2025	Related examples
	9-2-2025	<b>S. U. N. D. A. Y</b>
6	10-2-2025	Continued
	11-2-2025	Recurrence relations for Legendre's equation
	12-2-2025	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	13-2-2025	Orthogonality relation of Legendre's polynomial
	14-2-2025	Continued
	15-2-2025	Doubts related to the topic
	16-2-2025	<b>S. U. N. D. A. Y.</b>

7	17-2-2025	Hermite's equation
	18-2-2025	Generating function, Rodrigue's formula
	19-2-2025	Generating function
	20-2-2025	Recurrence relations and related examples
	21-2-2025	Orthogonal property of Hermite's polynomial
	22-2-2025	Doubts related to the topic
	23-2-2025	<b>S. U. N. D. A. Y.</b>
8	24-2-2025	Laplace Transforms: Definition and properties
	25-2-2025	Related examples
	26-2-2025	<b>HOLIDAY: MAHA SHIVRATRI</b>
	27-2-2025	First shifting property, change of scale property
	28-2-2025	Related examples
	1-3-2025	Second shifting property and related examples
	2-3-2025	<b>S. U. N. D. A. Y.</b>
9	3-3-2025	Laplace Transforms of derivatives
	4-3-2025	Laplace Transforms of periodic function
	5-3-2025	Laplace transforms of integrals
	6-3-2025	Continued
	7-3-2025	Laplace transforms of other functions
	8-3-2025	Doubts related to the topic
	9-3-2025	<b>S. U. N. D. A. Y.</b>
10	10-3-2025	<b>H.O.L.I.B.R.E.A.K</b>
	11-3-2025	<b>H.O.L.I.B.R.E.A.K</b>
	12-3-2025	<b>H.O.L.I.B.R.E.A.K</b>

	13-3-2025	<b>H.O.L.I.B.R.E.A.K</b>
	14-3-2025	<b>H.O.L.I.B.R.E.A.K</b>
	15-3-2025	<b>H.O.L.I.B.R.E.A.K</b>
	16-03-2025	<b>S. U. N. D. A. Y.</b>
11	17-3-2025	Inverse Laplace transforms
	18-3-2025	Other methods to find Inverse Transforms
	19-3-2025	Continued
	20-3-2025	Convolution Theorem
	21-3-2025	Examples related to the topic
	22-3-2025	Revision test
	23-3-2025	<b>S. U. N. D. A. Y.</b>
12	24-3-2025	Solution of differential equations by Laplace Transformation
	25-3-2025	Continued
	26-3-2025	Continued
	27-3-2025	Continued
	28-3-2025	Continued
	29-3-2025	Doubts related to the topic
	30-3-2025	<b>S. U. N. D. A. Y.</b>
13	31-3-2025	<b>HOLIDAY: ID-UL-FITR</b>
	1-4-2025	Fourier Transforms
	2-4-2025	Sine and cosine transforms
	3-4-2025	Related examples
	4-4-2025	Examples based on Fourier Sine and cosine transforms
	5-4-2025	Continued

	6-4-2025	<b>S. U. N. D. A. Y.</b>
14	7-4-2025	Fourier inverse transformation
	8-4-2025	Continued
	9-4-2025	Convolution theorem, Parseval's Identity
	10-4-2025	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	11-4-2025	Finite sine and cosine transforms
	12-4-2025	Continued
	13-4-2025	<b>S. U. N. D. A. Y.</b>
15	14-4-2025	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	15-4-2025	Doubts related to the topic
	16-4-2025	Revision test
	17-4-2025	Solution of differential equations by Fourier Transforms
	18-4-2025	Continued
	19-4-2025	Continued
	20-4-2025	<b>S. U. N. D. A. Y.</b>
16	21-4-2025	Continued
	22-4-2025	Continued
	23-4-2025	Continued
	24-4-2025	Continued
	25-4-2025	Doubts related to the topic
	26-4-2025	Revision test
	27-4-2025	<b>S. U. N. D. A. Y.</b>
	28-4-2025	Discussion of Previous year questions
	29-4-2025	Discussion of Previous year questions

17	30-4-2025	<b>HOLIDAY: AKSHAY TRITYA</b>
	01-05-2025	Discussion of Previous year questions
	02-05-2025	Discussion of Previous year questions
	03-05-2025	Discussion of Previous year questions
	04-05-2025	<b>S. U. N. D. A. Y.</b>



# Aggarwal College Ballabgarh

## LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Ms. Poonam Gupta\_\_\_\_\_

Designation/ Department: Assistant Professor in Maths\_\_\_\_

CLASS: MA (ECO)		SEMESTER: Second	SECTION:
SUBJECT: Mathematics for Economists-II			
Week			
1	7-1-2025	-----	
	8-1-2025	Integration: Meaning & Formulas	
	9-1-2025	Simple questions of Indefinite integration	
	10-1-2025	Continue the same topic	
	11-1-2025	Integration by Substitution	
	12-1-2025	S. U. N. D. A. Y.	
2	13-1-2025	-----	
	14-1-2025	-----	
	15-1-2025	Continue the topic	
	16-1-2025	Integration by substitution, Integration by partial fraction	
	17-1-2025	Continue the topic	
	18-1-2025	Integration of trigonometric functions	
	19-1-2025	S. U. N. D. A. Y.	
3	20-1-2025	-----	
	21-1-2025	-----	
	22-1-2025	Continue the topic	
	23-1-2025	Economic application based questions of integration	

	24-1-2025	Continue the topic
	25-1-2025	Doubts related to the topic
	26-1-2025	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
4	27-1-2025	-----
	28-1-2025	-----
	29-1-2025	Differential equation: Definitions & Basic concepts
	30-1-2025	Solution of first order linear differential equation
	31-1-2025	Continue the topic
	1-2-2025	Solution of first order non-linear differential equation
	2-2-2025	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
5	3-2-2025	-----
	4-2-2025	-----
	5-2-2025	Continue the topic
	6-2-2025	Exact differential equation
	7-2-2025	Continue the topic
	8-2-2025	Variable separable type equation
	9-2-2025	<b>S. U. N. D. A. Y</b>
6	10-2-2025	-----
	11-2-2025	-----
	12-2-2025	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	13-2-2025	Continue the topic
	14-2-2025	Linear differential equation of second order with constant coefficient
	15-2-2025	Continue the topic
	16-2-2025	<b>S. U. N. D. A. Y.</b>



7	17-2-2025	-----
	18-2-2025	-----
	19-2-2025	Continue the same topic
	20-2-2025	Economic application based questions
	21-2-2025	Continue the same topic
	22-2-2025	Continue the same topic
	23-2-2025	<b>S. U. N. D. A. Y.</b>
8	24-2-2025	-----
	25-2-2025	-----
	26-2-2025	<b>HOLIDAY: MAHA SHIVRATRI</b>
	27-2-2025	Doubts related to the topic
	28-2-2025	Revision test
	1-3-2025	Difference equation: Basic concepts
	2-3-2025	<b>S. U. N. D. A. Y.</b>
9	3-3-2025	Continue the topic
	4-3-2025	Solution of first order linear difference equation
	5-3-2025	Continue the topic
	6-3-2025	Continue the topic
	7-3-2025	Solution of second order linear difference equation
	8-3-2025	Continue the topic
	9-3-2025	<b>S. U. N. D. A. Y.</b>
10	10-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	11-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	12-3-2025	<b>H.O.L.Y B.R.E.A.K</b>

	13-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	14-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	15-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	16-03-2025	<b>S. U. N. D. A. Y.</b>
11	17-3-2025	-----
	18-3-2025	-----
	19-3-2025	Continue the topic
	20-3-2025	Economic application based questions
	21-3-2025	Continue the same
	22-3-2025	Continue the same
	23-3-2025	<b>S. U. N. D. A. Y.</b>
12	24-3-2025	-----
	25-3-2025	-----
	26-3-2025	Doubts related to the topic
	27-3-2025	Revision test
	28-3-2025	Linear Programming: Basic concepts
	29-3-2025	Linear inequalities
	30-3-2025	<b>S. U. N. D. A. Y.</b>
13	31-3-2025	<b>HOLIDAY: ID-UL-FITR</b>
	1-4-2025	-----
	2-4-2025	Continue the same
	3-4-2025	Continue the same
	4-4-2025	Graphical method to solve linear inequalities
	5-4-2025	Continue the same

	6-4-2025	<b>S. U. N. D. A. Y.</b>
14	7-4-2025	-----
	8-4-2025	-----
	9-4-2025	Continue the same
	10-4-2025	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	11-4-2025	Continue the same
	12-4-2025	Simplex method to solve Linear programming problems
	13-4-2025	<b>S. U. N. D. A. Y.</b>
15	14-4-2025	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	15-4-2025	-----
	16-4-2025	Continue the same
	17-4-2025	Continue the same
	18-4-2025	Continue the same
	19-4-2025	Continue the same
	20-4-2025	<b>S. U. N. D. A. Y.</b>
16	21-4-2025	-----
	22-4-2025	-----
	23-4-2025	Economic application based questions
	24-4-2025	Continue the same
	25-4-2025	Continue the same
	26-4-2025	<b>Doubts related to the topic</b>
	27-4-2025	<b>S. U. N. D. A. Y.</b>
	28-4-2025	-----
	29-4-2025	-----

17	30-4-2025	<b>HOLIDAY: AKSHAY TRITYA</b>
	01-05-2025	Discussion of previous year question papers
	02-05-2025	Discussion of previous year question papers
	03-05-2025	Discussion of previous year question papers
	04-05-2025	<b>S. U. N. D. A. Y.</b>



# Aggarwal College Ballabgarh

## LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Ms. Poonam Gupta

Designation/ Department: Assistant Professor in Maths

CLASS: B.SC. (Hons.) MATHS		SEMESTER: Sixth	SECTION:
SUBJECT: Linear Algebra			
Week			
1	7-1-2025	Vector Space: Definition and examples	
	8-1-2025	Subspace: Definition and Theorems	
	9-1-2025	Continued	
	10-1-2025	Examples of subspace	
	11-1-2025	Sum and direct sum of subspace	
	12-1-2025	S. U. N. D. A. Y.	
2	13-1-2025	Linear Span	
	14-1-2025	Continued	
	15-1-2025	Linearly independent and dependent vectors	
	16-1-2025	Finitely generated vector space	
	17-1-2025	Continued	
	18-1-2025	Existence theorem	
	19-1-2025	S. U. N. D. A. Y.	
3	20-1-2025	Finite dimension vector space theorem	
	21-1-2025	Continued	
	22-1-2025	Invariance of number of elements	
	23-1-2025	Continued	

	24-1-2025	Theorem related to dimension
	25-1-2025	Quotient space
	26-1-2025	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
4	27-1-2025	Continued
	28-1-2025	Continued
	29-1-2025	Doubts related to the topic
	30-1-2025	Revision test
	31-1-2025	Homomorphism and Isomorphism of vector space
	1-2-2025	Linear transformation: definition and properties
	2-2-2025	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
5	3-2-2025	Related examples
	4-2-2025	Theorems and examples on vector space isomorphism
	5-2-2025	Continued
	6-2-2025	To find linear transformation T
	7-2-2025	Kernel of a Linear Transformation
	8-2-2025	Related Theorems
	9-2-2025	<b>S. U. N. D. A. Y</b>
6	10-2-2025	Rank and Nullity of Linear Transformation
	11-2-2025	Related Theorems and examples
	12-2-2025	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	13-2-2025	Continued
	14-2-2025	Doubts related to the topic
	15-2-2025	Revision test
	16-2-2025	<b>S. U. N. D. A. Y.</b>

7	17-2-2025	Dual Space
	18-2-2025	Bidual spaces
	19-2-2025	Annihilator of subspaces of finite dimensional vector space
	20-2-2025	Continue the topic
	21-2-2025	Algebra of linear transformation
	22-2-2025	Continue the topic
	23-2-2025	<b>S. U. N. D. A. Y.</b>
8	24-2-2025	Continue the topic
	25-2-2025	Doubts related to the topic
	26-2-2025	<b>HOLIDAY: MAHA SHIVRATRI</b>
	27-2-2025	Minimal polynomial of a linear transformation
	28-2-2025	Continue the topic
	1-3-2025	Singular and non-singular linear transformation
	2-3-2025	<b>S. U. N. D. A. Y.</b>
9	3-3-2025	Continue the topic
	4-3-2025	Matrix of a linear transformation
	5-3-2025	Continue the topic
	6-3-2025	Continue the topic
	7-3-2025	Continue the topic
	8-3-2025	Continue the topic
	9-3-2025	<b>S. U. N. D. A. Y.</b>
10	10-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	11-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	12-3-2025	<b>H.O.L.Y B.R.E.A.K</b>

	13-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	14-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	15-3-2025	<b>H.O.L.Y B.R.E.A.K</b>
	16-03-2025	<b>S. U. N. D. A. Y.</b>
11	17-3-2025	Eigen values and Eigen vectors of a linear transformation
	18-3-2025	Continue the topic
	19-3-2025	Continue the topic
	20-3-2025	Change of basis
	21-3-2025	Continue the topic
	22-3-2025	Continue the topic
	23-3-2025	<b>S. U. N. D. A. Y.</b>
12	24-3-2025	Doubts related to the topic Revision test
	25-3-2025	Revision test
	26-3-2025	Eigen values and Eigen vectors of a linear transformation
	27-3-2025	Continue the topic
	28-3-2025	Doubts related to the topic
	29-3-2025	Revision test
	30-3-2025	<b>S. U. N. D. A. Y.</b>
13	31-3-2025	<b>HOLIDAY: ID-UL-FITR</b>
	1-4-2025	Inner product space: Definition and properties
	2-4-2025	Examples related to the topic
	3-4-2025	Continue the topic
	4-4-2025	Cauchy-Schwarz inequality, Triangle's inequality
	5-4-2025	Problems Related to the topic



	6-4-2025	<b>S. U. N. D. A. Y.</b>
14	7-4-2025	Orthogonal vectors
	8-4-2025	Continue the topic
	9-4-2025	Continue the topic
	10-4-2025	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	11-4-2025	Orthogonal complements
	12-4-2025	Orthogonal sets and basis
	13-4-2025	<b>S. U. N. D. A. Y.</b>
15	14-4-2025	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	15-4-2025	Bessel's inequality for finite dimensional vector spaces
	16-4-2025	Gram-Schmidt orthogonalization process
	17-4-2025	Adjoint of a linear transformation and its properties
	18-4-2025	Continue the topic
	19-4-2025	Continue the topic
	20-4-2025	<b>S. U. N. D. A. Y.</b>
16	21-4-2025	Unitary linear transformation
	22-4-2025	Continue the topic
	23-4-2025	Continue the topic
	24-4-2025	Continue the topic
	25-4-2025	Doubts related to the topic
	26-4-2025	Revision test
	27-4-2025	<b>S. U. N. D. A. Y.</b>
	28-4-2025	Discussion of previous year question papers
	29-4-2025	Discussion of previous year question papers

17	30-4-2025	<b>HOLIDAY: AKSHAY TRITYA</b>
	01-05-2025	Discussion of previous year question papers
	02-05-2025	Discussion of previous year question papers
	03-05-2025	Discussion of previous year question papers
	04-05-2025	<b>S. U. N. D. A. Y.</b>



# Aggarwal College Ballabgarh

## LESSON PLAN 17 WEEKS (JAN-MAY)-2025

**Name of Faculty: Ms. Poonam Gupta**

**Designation/ Department: Assistant Prof. , Department of Mathematics**

<b>CLASS:B.A/B.A (ECO) Hons.</b>	<b>SEMESTER: IInd</b>	<b>SECTION:</b>
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**SUBJECT:MDC: Mathematical Reasoning**

<b>Week</b>		
<b>1</b>	<b>1-2-2025</b>	-----
	<b>2-2-2025</b>	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
<b>2</b>	<b>3-2-2025</b>	Introduction to the subject
	<b>4-2-2025</b>	Analogy introduction
	<b>5-2-2025</b>	Analogy contd.
	<b>6-2-2025</b>	-----
	<b>7-2-2025</b>	-----
	<b>8-2-2025</b>	-----
	<b>9-2-2025</b>	<b>S. U. N. D. A. Y</b>
<b>3</b>	<b>10-2-2025</b>	Analogy contd
	<b>11-2-2025</b>	Classification
	<b>12-2-2025</b>	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	<b>13-2-2025</b>	-----
	<b>14-2-2025</b>	-----
	<b>15-2-2025</b>	-----
	<b>16-2-2025</b>	<b>S. U. N. D. A. Y.</b>

4	17-2-2025	Series Completion
	18-2-2025	Series Completion contd.
	19-2-2025	Coding-Decoding
	20-2-2025	-----
	21-2-2025	-----
	22-2-2025	-----
	23-2-2025	S. U. N. D. A. Y.
5	24-2-2025	Coding-Decoding contd.
	25-2-2025	Blood Relation
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	-----
	28-2-2025	-----
	1-3-2025	-----
	2-3-2025	S. U. N. D. A. Y.
6	3-3-2025	Puzzle Test
	4-3-2025	Puzzle Test Contd.
	5-3-2025	Sequential output tracing
	6-3-2025	-----
	7-3-2025	-----
	8-3-2025	-----
	9-3-2025	S. U. N. D. A. Y.
7	10-3-2025	Sequential output tracing contd.
	11-3-2025	Logical Venn Diagram
	12-3-2025	Logical Venn Diagram

	13-3-2025	-----
	14-3-2025	-----
	15-3-2025	-----
	16-03-2025	S. U. N. D. A. Y.
8	17-3-2025	Alphabet Test
	18-3-2025	Number, Ranking
	19-3-2025	Test
	20-3-2025	-----
	21-3-2025	-----
	22-3-2025	-----
	23-3-2025	S. U. N. D. A. Y.
9	24-3-2025	Time sequence test
	25-3-2025	Time sequence test contd.
	26-3-2025	Mathematical operation
	27-3-2025	-----
	28-3-2025	-----
	29-3-2025	-----
	30-3-2025	S. U. N. D. A. Y.
10	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	Logical sequence
	2-4-2025	Logical sequence contd
	3-4-2025	-----
	4-4-2025	-----
	5-4-2025	-----

	6-4-2025	S. U. N. D. A. Y.
11	7-4-2025	Arithmetical Reasoning
	8-4-2025	Tabulation
	9-4-2025	Bar Graphs
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	-----
	12-4-2025	-----
	13-4-2025	S. U. N. D. A. Y.
12	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	Venn Diagrams
	16-4-2025	Line Graphs
	17-4-2025	-----
	18-4-2025	-----
	19-4-2025	-----
	20-4-2025	S. U. N. D. A. Y.
13	21-4-2025	Pie Chart
	22-4-2025	Analytical Reasoning
	23-4-2025	Analytical Reasoning contd.
	24-4-2025	-----
	25-4-2025	-----
	26-4-2025	-----
	27-4-2025	S. U. N. D. A. Y.
	28-4-2025	Mirror images
	29-4-2025	Mirror images contd.

14	30-4-2025	Mirror images contd.
	01-05-2025	-----
	02-05-2025	-----
	03-05-2025	-----
	04-05-2025	S. U. N. D. A. Y.
15	05-05-2025	Important questions
	06-05-2025	Important questions
	07-05-2025	Important questions
	08-05-2025	-----
	09-05-2025	-----
	10-05-2025	-----
	11-05-2025	S. U. N. D. A. Y.
16	12-05-2025	Revision
	13-05-2025	Revision
	14-05-2025	Revision
	15-05-2025	-----
	16-05-2025	-----
	17-05-2025	-----
	18-05-2025	S. U. N. D. A. Y.



# Aggarwal College Ballabgarh

## LESSON PLAN 17 WEEKS (JAN-MAY)-2025

**Name of Faculty: Ms. Poonam Gupta**  
**Designation/ Department: Assistant Prof. , Department of Mathematics**

<b>CLASS: B.SC. (HONS) MATHS</b>		<b>SEMESTER: IInd</b>	<b>SECTION:</b>
<b>SUBJECT: SEC(Numerical Analysis)</b>			
<b>Week</b>			
<b>1</b>	<b>1-2-2025</b>	-----	
	<b>2-2-2025</b>	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>	
<b>2</b>	<b>3-2-2025</b>	Finite difference operator and their relations	
	<b>4-2-2025</b>	Finding the missing terms	
	<b>5-2-2025</b>	-----	
	<b>6-2-2025</b>	-----	
	<b>7-2-2025</b>	-----	
	<b>8-2-2025</b>	-----	
	<b>9-2-2025</b>	<b>S. U. N. D. A. Y</b>	
<b>3</b>	<b>10-2-2025</b>	effect of error in a difference tabular values	
	<b>11-2-2025</b>	Newton's forward and backward interpolation	
	<b>12-2-2025</b>	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>	
	<b>13-2-2025</b>	-----	
	<b>14-2-2025</b>	-----	
	<b>15-2-2025</b>	-----	



	16-2-2025	S. U. N. D. A. Y.
4	17-2-2025	Interpolation with unequal intervals: Newton's divide difference
	18-2-2025	Lagrange's interpolation formulae
	19-2-2025	-----
	20-2-2025	-----
	21-2-2025	-----
	22-2-2025	-----
	23-2-2025	S. U. N. D. A. Y.
5	24-2-2025	Hermite's formulae
	25-2-2025	continue the topic
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	-----
	28-2-2025	-----
	1-3-2025	-----
	2-3-2025	S. U. N. D. A. Y.
6	3-3-2025	Doubts related to the topic
	4-3-2025	Revision test
	5-3-2025	-----
	6-3-2025	-----
	7-3-2025	-----
	8-3-2025	-----
	9-3-2025	S. U. N. D. A. Y.
7	10-3-2025	Gauss forward interpolation formulae
	11-3-2025	Gauss backward interpolation formulae

	12-3-2025	-----
	13-3-2025	-----
	14-3-2025	-----
	15-3-2025	-----
	16-03-2025	S. U. N. D. A. Y.
8	17-3-2025	Sterling and Bessel's formulae
	18-3-2025	Derivative of a function using interpolation formulae
	19-3-2025	-----
	20-3-2025	-----
	21-3-2025	-----
	22-3-2025	-----
	23-3-2025	S. U. N. D. A. Y.
9	24-3-2025	Power's method and Jacobi's method
	25-3-2025	Given's method and House- Holder's method
	26-3-2025	-----
	27-3-2025	-----
	28-3-2025	-----
	29-3-2025	-----
	30-3-2025	S. U. N. D. A. Y.
10	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	QR method and Lanczos method
	2-4-2025	-----
	3-4-2025	-----
	4-4-2025	-----

	5-4-2025	-----
	6-4-2025	S. U. N. D. A. Y.
11	7-4-2025	Doubts related to the topic
	8-4-2025	Revision test
	9-4-2025	-----
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	-----
	12-4-2025	-----
	13-4-2025	S. U. N. D. A. Y.
12	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	Newton's cotes Quadrature method
	16-4-2025	-----
	17-4-2025	-----
	18-4-2025	-----
	19-4-2025	-----
	20-4-2025	S. U. N. D. A. Y.
13	21-4-2025	Trapezoidal rule, Simpson's one-third and three- eighth rule
	22-4-2025	Chebychew formula and Gauss quadrature formulae
	23-4-2025	-----
	24-4-2025	-----
	25-4-2025	-----
	26-4-2025	-----
	27-4-2025	S. U. N. D. A. Y.
	28-4-2025	Single step method- Picard's method

14	29-4-2025	Taylor's series method, Euler's method
	30-4-2025	-----
	01-05-2025	-----
	02-05-2025	-----
	03-05-2025	-----
	04-05-2025	S. U. N. D. A. Y.
15	05-05-2025	Euler's method, Modified Euler's method and R-K method
	06-05-2025	Multi step method and Predictor- Corrector method and Milne- Simpson's method
	07-05-2025	-----
	08-05-2025	-----
	09-05-2025	-----
	10-05-2025	-----
	11-05-2025	S. U. N. D. A. Y.
16	12-05-2025	Doubts related to the topic
	13-05-2025	Revision
	14-05-2025	-----
	15-05-2025	-----
	16-05-2025	-----
	17-05-2025	-----
	18-05-2025	S. U. N. D. A. Y.



# Aggarwal College Ballabgarh

## LESSON PLAN 17 WEEKS (JAN-MAY)-2025

**Name of Faculty: Ms. Poonam Gupta**  
**Designation/ Department: Assistant Prof. , Department of Mathematics**

<b>CLASS: B.SC. (HONS) MATHS</b>		<b>SEMESTER: IInd</b>	<b>SECTION:</b>
<b>SUBJECT: CALCULUS</b>			
<b>Week</b>			
<b>1</b>	<b>1-2-2025</b>	Limit & Continuity: Definition & examples	
	<b>2-2-2025</b>	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>	
<b>2</b>	<b>3-2-2025</b>	-----	
	<b>4-2-2025</b>	-----	
	<b>5-2-2025</b>	-----	
	<b>6-2-2025</b>	Continue the topic	
	<b>7-2-2025</b>	Discontinuity & its types	
	<b>8-2-2025</b>	Continue the topic	
	<b>9-2-2025</b>	<b>S. U. N. D. A. Y</b>	
<b>3</b>	<b>10-2-2025</b>	-----	
	<b>11-2-2025</b>	-----	
	<b>12-2-2025</b>	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>	
	<b>13-2-2025</b>	Differentiability of the functions	
	<b>14-2-2025</b>	Successive differentiation	
	<b>15-2-2025</b>	Continue the topic	

	16-2-2025	S. U. N. D. A. Y.
4	17-2-2025	-----
	18-2-2025	-----
	19-2-2025	-----
	20-2-2025	Continue the topic
	21-2-2025	Continue the topic
	22-2-2025	Leibnitz rule and its applications
	23-2-2025	S. U. N. D. A. Y.
5	24-2-2025	-----
	25-2-2025	-----
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	Continue the topic
	28-2-2025	Continue the topic
	1-3-2025	L'Hospital's Rule
	2-3-2025	S. U. N. D. A. Y.
6	3-3-2025	-----
	4-3-2025	-----
	5-3-2025	-----
	6-3-2025	Indeterminate forms
	7-3-2025	Continue the topic
	8-3-2025	Taylor's Theorem with Lagrange's and Cauchy's form of remainder
	9-3-2025	S. U. N. D. A. Y.
7	10-3-2025	-----
	11-3-2025	-----

	12-3-2025	-----
	13-3-2025	Maclaurin's and Taylor's series expansion
	14-3-2025	Continue the topic
	15-3-2025	Doubts related to the topic
	16-03-2025	S. U. N. D. A. Y.
8	17-3-2025	-----
	18-3-2025	-----
	19-3-2025	-----
	20-3-2025	Tangent and normal
	21-3-2025	Asymptotes of curves In Cartesian co-ordinates
	22-3-2025	Asymptotes of curves In polar co-ordinates
	23-3-2025	S. U. N. D. A. Y.
9	24-3-2025	-----
	25-3-2025	-----
	26-3-2025	-----
	27-3-2025	Continue the topic
	28-3-2025	Curvature: Definition and examples
	29-3-2025	Radius of curvature for Cartesian curves
	30-3-2025	S. U. N. D. A. Y.
10	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	-----
	2-4-2025	-----
	3-4-2025	Parametric, polar and pedal forms of curves
	4-4-2025	Circle of curvature, Chord of curvature

	5-4-2025	Concavity, convexity and Inflexion points
	6-4-2025	S. U. N. D. A. Y.
11	7-4-2025	-----
	8-4-2025	-----
	9-4-2025	-----
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	Continue the topic
	12-4-2025	Revision test
	13-4-2025	S. U. N. D. A. Y.
12	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	-----
	16-4-2025	-----
	17-4-2025	Tracing of curves in Cartesian and parametric curves
	18-4-2025	Continue the topic
	19-4-2025	Tracing of curves in polar curves
	20-4-2025	S. U. N. D. A. Y.
13	21-4-2025	-----
	22-4-2025	-----
	23-4-2025	-----
	24-4-2025	Continue the topic
	25-4-2025	Continue the topic
	26-4-2025	Doubts related the topic
	27-4-2025	S. U. N. D. A. Y.
	28-4-2025	-----



14	29-4-2025	-----
	30-4-2025	-----
	01-05-2025	Function of several variables
	02-05-2025	Limit and continuity
	03-05-2025	Partial differentiation
	04-05-2025	S. U. N. D. A. Y.
15	05-05-2025	-----
	06-05-2025	-----
	07-05-2025	-----
	08-05-2025	Euler's theorem on homogeneous functions
	09-05-2025	Chain rule
	10-05-2025	Directional derivatives
	11-05-2025	S. U. N. D. A. Y.
16	12-05-2025	-----
	13-05-2025	-----
	14-05-2025	-----
	15-05-2025	Gradient vectors and tangent planes
	16-05-2025	Doubts related the topic
	17-05-2025	Revision test
	18-05-2025	S. U. N. D. A. Y.