GDC Memorial College, Bahal (Bhiwani)

NAAC Accredited Grade "B"
Lesson Plan- Jan to May 2024

Name - Jaiveer	**Department - Maths**
Class - BA/BSC 4th sem	**Subject - Mechanics (20UMTH401)**

Unit-1	
6-Feb-24	Composition and resolution of Forces
7-Feb-24	Do
9-Feb-24	Do
12-Feb-24	Resultant of Two Parallel forces and their application
13-Feb-24	Do
14-Feb-24	Do
16-Feb-24	Do
19-Feb-24	Do
20-Feb-24	Test
Unit-2	
21-Feb-24	Moments and Couples
23-Feb-24	Do
26-Feb-24	Do
27-Feb-24	Analytical Condition of equillibirium of Coplanar Forces
28-Feb-24	Do
1-Mar-24	Do
4-Mar-24	Do
5-Mar-24	Do
6-Mar-24	Do
8-Mar-24	Test
Unit-3	
11-Mar-24	Velocity and Acceleration along radial
12-Mar-24	Do
13-Mar-24	Do
15-Mar-24	Velocity and Acceleration along transverse
18-Mar-24	**Do**
19-Mar-24	Do
20-Mar-24	Velocity and Acceleration along Tangential
20-Mar-24	Do
22-Mar-24	Do
25-Mar-24	Velocity and Acceleration along Normal Direction
26-Mar-24	Do
27-Mar-24	Do
30-Mar-24	Relative velocity and acceleration
1-Apr-24	Do
2-Apr-24	Do
3-Apr-24	Simple Harmonic motion

5-Apr-24	Do
8-Apr-24	Do
9-Apr-24	test
	Unit-4
10-Apr-24	Elastic Strings
12-Apr-24	Do
15-Apr-24	Do
16-Apr-24	Newton's laws of Motion
19-Apr-24	Do
22-Apr-24	Do
23-Apr-24	Work
24-Apr-24	Power
26-Apr-24	Do
29-Apr-24	Energy
1-May-24	Do
3-May-24	Test
6-May-24	Revision

GDC Memorial College, Bahal (Bhiwani)

NAAC Accredited Grade "B"
Lesson Plan- Jan to May 2024

Name - Jaiveer　　　　　　**Department - Mathematics**
Class - B.Sc.　　　　　　**Subject - Vector Calculus & Geometry**
Semester - 2nd　　　　　　**Subject Code - 20UMTH202**

	UNIT-1
6-Feb-24	Gradient
7-Feb-24	Directional derivatives
8-Feb-24	Geometrical interpretation of grad
9-Feb-24	Divergence
13-Feb-24	Curl
14-Feb-24	Do
15-Feb-24	Do
16-Feb-24	Identies of Curl Divergence Grad
20-Feb-24	Laplican operator
21-Feb-24	do
	UNIT-2
22-Feb-24	Curvillinear Coordinates
23-Feb-24	Do
27-Feb-24	Condition of Orthogonal coordinates
28-Feb-24	Grad curl divergence in term of laplacelial operator
29-Feb-24	do

2-Mar-24	do
5-Mar-24	do
6-Mar-24	Cylinderical coordinate
7-Mar-24	do
8-Mar-24	spherical co ordinate
12-Mar-24	do
13-Mar-24	do
14-Mar-24	test
	UNIT-3
15-Mar-24	Vector Integration
19-Mar-24	do
20-Mar-24	Line Integral
21-Mar-24	surface integral
22-Mar-24	volume integration
26-Mar-24	do
27-Mar-24	do
28-Mar-24	do
29-Mar-24	green Gauss and stocks theorem
2-Apr-24	do
3-Apr-24	do
4-Apr-24	do
5-Apr-24	do
9-Apr-24	Test
	UNIT-4
10-Apr-24	General eq of secound degree
11-Apr-24	Tracing of conic
12-Apr-24	Tangent at any point to conic
16-Apr-24	do
18-Apr-24	do
19-Apr-24	do
23-Apr-24	chord of contact
24-Apr-24	Pole of line to the conic
25-Apr-24	do
26-Apr-24	Director circle of conic
30-Apr-24	do
1-May-24	do
2-May-24	Revision
3-May-24	Revision
6-May-24	Revision

GDC Memorial College, Bahal (Bhiwani)
NAAC Accredited Grade "B"

Lesson Plan- Jan to May 2024

Name - Jaiveer

Department - Mathematics

Class - B.A/B.Sc.

Subject - Advanced Calculus

Semester -6th

Subject Code - 20UMTH604

	Unit-1
5-Feb-24	Uniform Continuity
7-Feb-24	Do
8-Feb-24	Chain Rule of Differentiability
9-Feb-24	Do
12-Feb-24	Mean Value Theorems
14-Feb-24	Roll's Theorem
15-Feb-24	Do
16-Feb-24	Lagrange's mean value theorem
19-Feb-24	Do
21-Feb-24	Taylor's Theorem with various forms of Remainders
22-Feb-24	Darboux intermediate value theorem for Derivatives
23-Feb-24	Do
26-Feb-24	Indeterminate Forms
	Unit-2
28-Feb-24	Limit andContinuity of Real valued function of Two Variables
29-Feb-24	Do
1-Mar-24	Partial differentition
4-Mar-24	Do
6-Mar-24	Total differentition
7-Mar-24	Composite function &implicit Function
8-Mar-24	Do
11-Mar-24	Change Of Variable
13-Mar-24	Do
14-Mar-24	Homogeneous function &Euler's theorem on Homogeneous Function
15-Mar-24	Do
18-Mar-24	Do
20-Mar-24	Test
	Unit-3
21-Mar-24	Taylor's Theorems for Function of Two variable
22-Mar-24	Do
27-Mar-24	Differentiability of real valued function of two variables
28-Mar-24	Do
29-Mar-24	Do
1-Apr-24	Schwarz and Young's theorems
3-Apr-24	Do
4-Apr-24	Implicit Function
5-Apr-24	Do
8-Apr-24	Maxima ,Minima
10-Apr-24	Saddle points of two variables

11-Apr-24	Do
12-Apr-24	Do
15-Apr-24	Test
	Unit-4
18-Apr-24	Lagrange's method of multipliers
19-Apr-24	Do
22-Apr-24	Jacobian
24-Apr-24	Differentitation under integral Sign
25-Apr-24	Application of Tripple integrals
26-Apr-24	Do
29-Apr-24	Change of variable in Double and triple integrals
1-May-24	Do
2-May-24	Do
3-May-24	Test
6-May-24	Revision

GDC Memorial College, Bahal (Bhiwani)

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Lesson Plan- Jan to May 2024

Name - Prem singh	Department - Mathematics
Class - B.sc, B.A	Subject - Special Function & integral transforms
Semester - 6th	Subject Code - 20UMTH601

	UNIT-1
6-Feb-24	Series Solution of Differential equation
7-Feb-24	Power series Mathod
8-Feb-24	do
9-Feb-24	do
13-Feb-24	Definition of Beta &Gamma function
14-Feb-24	do
15-Feb-24	Bessel equation
16-Feb-24	do
20-Feb-24	Bessel function and their properties
21-Feb-24	do
22-Feb-24	Convergence recurrence
23-Feb-24	do
27-Feb-24	Relation and generating function
28-Feb-24	do
29-Feb-24	Orthogonality of Bessel function
1-Mar-24	do
	UNIT-2
5-Mar-24	Legendre differential equation

6-Mar-24	solution of Legendre equation
7-Mar-24	do
8-Mar-24	Legendre function
12-Mar-24	properties of Legendre function
13-Mar-24	recurrence relation
14-Mar-24	generatiing function
15-Mar-24	Orthogonality of Legendre function
19-Mar-24	Rodrigues formula foe Legendre function
20-Mar-24	Integral representaion of Legendre polynomial
21-Mar-24	do
22-Mar-24	Test
	UNIT-3
26-Mar-24	Lapalace Transforms
27-Mar-24	Linearty of Laplace transforms
28-Mar-24	Shifting Theorem
29-Mar-24	Laplace transforms of derivatives and integral
2-Apr-24	Differentiation and integration of laplace transform
3-Apr-24	Convolution Theorem
4-Apr-24	do
5-Apr-24	Inverse laplace transforms
9-Apr-24	d0
10-Apr-24	Solution of Ordinary Differential equation with constant coefficients using Laplace Transform
11-Apr-24	Test
	UNIT-4
12-Apr-24	Fourier transforms
16-Apr-24	Linearty property
17-Apr-24	Shifting Property
18-Apr-24	Modulation
19-Apr-24	do
23-Apr-24	Convolution Theorem
24-Apr-24	do
25-Apr-24	Fourier transforms of Derivatives
26-Apr-24	Relation between fourier transforms and laplace transforms
30-Apr-24	Parseval's identity for Fourier series
1-May-24	do
2-May-24	Solution of Ordinary Differential equation with constant coefficients using Fourier Transform
3-May-24	do