Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma	
Class and Section:	B.A. 1 st Year	
Subject:	Mathematics	
Paper:	Vector Calculus	
Year/Semester:	1 st Year/2 nd Semester	

16 March 2021 to 15 April 2021

Month/Week	Торіс
March(Week-3)	Scalar and Vector Product of three Vectors
March(Week-4)	Scalar and Vector Product of four Vectors and Reciprocal Vectors
April (Week-1)	Revision and Tests
April (Week-2)	Differentiation of Vectors

16 April 2021 to 15 May 2021

Month/Week	Торіс
April (Week-3)	Gradient of Vectors
April (Week-4)	Divergence of Vectors
May(Week-1)	Curl of Vectors and Laplace of Vectors
May (Week-2)	Revision and Tests

16 May 2021 to 15 June. 2021

Month/Week	Торіс
May (Week-3)	Curvilinear coordinates
May (Week-4)	Vector Integration : Line Integral
June (Week-1)	Vector Integration: Surface Integral and Volume Integral
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Торіс
June (Week-3)	Gauss Theorem
June (Week-4)	Stokes' and Green's Theorem
July (Week-1)	Revision and Tests

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 1 st Year
Subject:	Mathematics
Paper:	Number Theory and Trigonometry
Year/Semester:	1 st Year/ 2 nd Semester

16 March 2021 to 15 April 2021

Month/Week	Торіс
March(Week-3)	Divisibility
March(Week-4)	Congruences
April (Week-1)	Fermet's, Willson's and Chinese Remainder Theorem
April (Week-2)	Revision and Tests

16 April 2021 to 15 May 2021

Торіс	
Euler's Function and Residue System	
Some functions of Number Theory	
Quadratic Residue and Reciprocity Law	
Revision and Tests	
	Euler's Function and Residue System Some functions of Number Theory Quadratic Residue and Reciprocity Law

16 May 2021 to 15 June. 2021

Month/Week	Торіс
May (Week-3)	De-Moiver's Theorem and related Examples
May (Week-4)	Applications of De-Moiver's Theorem
June (Week-1)	Circular and Hyperbolic Functions of a complex variables
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Торіс
June (Week-3)	Logarithm of a Complex Quantity, Inverse Circular and Inverse Hyperbolic Functions
June (Week-4)	Summation of Series
July (Week-1)	Revision and Tests

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma	
Class and Section:	B.A. 1 st Year	
Subject:	Mathematics	
Paper:	Ordinary Differential Equations	
Year/Semester:	1 st Year/2 nd Semester	

16 March 2021 to 15 April 2021

Month/Week	Торіс
March(Week-3)	Exact Differential Equations
March(Week-4)	Equations of first order but not first degree: Lagrange's equation
April (Week-1)	Equations of first order but not first degree: Clairaut's equation and singular solution
April (Week-2)	Revision and Tests

16 April 2021 to 15 May 2021

Month/Week	Торіс
April (Week-3)	Orthogonal Trajectories
April (Week-4)	Linear Differential equations with constant coefficients
May(Week-1)	Linear Differential equations with constant coefficients- continued
May (Week-2)	Homogeneous linear equations

16 May 2021 to 15 June. 2021

Month/Week	Торіс
May (Week-3)	Revision and Tests
May (Week-4)	Linear differential equations of second degree
June (Week-1)	Linear differential equations of second degree- continued
June (Week-2)	Revision and Tests
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Торіс
June (Week-3)	Ordinary simultaneous differential equations
June (Week-4)	Total differential equations
July (Week-1)	Revision and Tests

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma Devi
Class and Section:	B.A. 1 st Semester
Subject:	Mathematics
Paper:	Algebra
Year/Semester:	1 st year/ 1 st semester

<u>06 Oct. 2020 to 05 Nov. 2020</u>

Month/Week	Торіс
October (Week-2)	Matrices
October (Week-3)	 Linear dependence and independence of rows and columns of Matrices. Orthogonal and unitary matrix
October (Week-4)	Rank of a matrix
November (Week-1)	Revision and Tests

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Торіс
November (Week-2)	Characteristic equation of a matrix
November (Week-3)	Minimal Polynomial of a MatricesCayley-Hamilton Theorem
November (Week-4)	• Applications of matrices to a system of linear equations
December (Week-1)	Revision and Tests

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Торіс
December (Week-2)	Bilinear and Quadratic forms
December (Week-3)	• Relation between the roots and coefficients of an equation
December (Week-4)	• Relation between the roots and coefficients of an equation
January (Week-1)	Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Торіс
January (Week-2)	Transformation of equations
January (Week-3)	Solution of cubic Equation
January (Week-4)	Solution of bi-quadratic equations
February (Week-1)	Revision and Tests

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Торіс
February (Week-2)	Descarte's Rule of signs
February (Week-3)	Revision and Tests
February (Week-4)	Revision and Tests

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 1 st Semester
Subject:	Mathematics
Paper:	Calculus
Year/Semester:	1 st year/ 1 st semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Торіс
October (Week-2)	Limit and Continuity
October (Week-3)	• Derivability
October (Week-4)	Successive Derivative
November (Week-1)	Revision and Tests

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Торіс
November (Week-2)	Lebnietz Theorem and Examples
November (Week-3)	• Taylors Theorem and Maclaurin Theorem with examples
November (Week-4)	• Expansion with differential equations
December (Week-1)	Revision and Tests

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Торіс
December (Week-2)	Asymptotes
December (Week-3)	Curvature
December (Week-4)	Singular Points
January (Week-1)	Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Торіс
January (Week-2)	Curve Tracing
January (Week-3)	Reduction formula
January (Week-4)	Rectification
February (Week-1)	Revision and Tests

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Торіс
February (Week-2)	• Quadrature
February (Week-3)	Volume and Surface of SolidS of Revolution
February (Week-4)	Revision and Tests

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma Devi	
Class and Section:	B.A. 1 st Semester	
Subject:	Mathematics	
Paper:	Solid Geometry	
Year/Semester:	1 st year/ 1 st semester	

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Торіс
October (Week-2)	General Equations of Second Degree
October (Week-3)	Tracing of the Conic
October (Week-4)	System of Conics
November (Week-1)	Revision and Tests

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Торіс
November (Week-2)	Confocal Conics
November (Week-3)	Polar Equation of Conics
November (Week-4)	• Sphere
December (Week-1)	Radical Plane and Co-axal system of Spheres

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Торіс
December (Week-2)	Revision and Tests
December (Week-3)	• Cone
December (Week-4)	Cylinder
January (Week-1)	Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Торіс
January (Week-2)	Conicoid
January (Week-3)	Plane Section of Conicoid
January (Week-4)	Generating lines and Confocal Conicoids
February (Week-1)	Revision and Tests

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Торіс
February (Week-2)	Reduction of Second Degree Equation
February (Week-3)	Revision and Tests
February (Week-4)	Revision and Tests