

Kanya Mahavidyalaya, Kharkhoda (Sonepat)

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma
Class and Section:	B.A. 3rd Semester
Subject:	Mathematics
Paper:	Advanced Calculus
Year/Semester:	2nd year/ 3rd Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Continuous Functions
October (Week-3)	<ul style="list-style-type: none">• Derivatives and Mean Value Theorems
October (Week-4)	<ul style="list-style-type: none">• Taylors Theorem and Indeterminate Form
November (Week-1)	<ul style="list-style-type: none">• Revision and Tests

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Topic
November (Week-2)	<ul style="list-style-type: none">• Limit and Continuity of Functions of two variables
November (Week-3)	<ul style="list-style-type: none">• Partial Differentiations
November (Week-4)	<ul style="list-style-type: none">• Differentiability of function of two variables
December (Week-1)	<ul style="list-style-type: none">• Revision and Tests

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Topic
December (Week-2)	<ul style="list-style-type: none">• Young's, Schwarz's and Implicit Function Theorem
December (Week-3)	<ul style="list-style-type: none">• Maximum and Minimum of a function of two variables
December (Week-4)	<ul style="list-style-type: none">• Curves in Space
January (Week-1)	<ul style="list-style-type: none">• Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Topic
January (Week-2)	<ul style="list-style-type: none">• Serret-Frenets Formula and its examples
January (Week-3)	<ul style="list-style-type: none">• Circle of curvature and spherical curvature
January (Week-4)	<ul style="list-style-type: none">• Involutives and Evolutives
February (Week-1)	<ul style="list-style-type: none">• Revision and Tests

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Topic
February (Week-2)	<ul style="list-style-type: none">• Concept of Surface and Envelopes
February (Week-3)	<ul style="list-style-type: none">• Revision and Tests
February (Week-4)	<ul style="list-style-type: none">• Revision and Tests

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma
Class and Section:	B.A. 3rd Semester
Subject:	Mathematics
Paper:	Partial Differential Equations
Year/Semester:	2nd year/ 3rd Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Formation of Partial Differential equations
October (Week-3)	<ul style="list-style-type: none">• First order linear P.D.E
October (Week-4)	<ul style="list-style-type: none">• First order non linear P.D.E
November (Week-1)	<ul style="list-style-type: none">• Revision and Tests

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Topic
November (Week-2)	<ul style="list-style-type: none">• Linear partial differential equations of second and higher orders
November (Week-3)	<ul style="list-style-type: none">• Equations reducible to linear equations with constant co-efficient.
November (Week-4)	<ul style="list-style-type: none">• Classification and Canonical form of linear partial differential equations of second order
December (Week-1)	<ul style="list-style-type: none">• Classification and Canonical form of linear partial differential equations of second order

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Topic
December (Week-2)	<ul style="list-style-type: none">• Revision and Tests
December (Week-3)	<ul style="list-style-type: none">• Monge's method for partial differential equations of second order
December (Week-4)	<ul style="list-style-type: none">• Characteristic equations second order partial differential equation.
January (Week-1)	<ul style="list-style-type: none">• Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Topic
January (Week-2)	<ul style="list-style-type: none">• Cauchy's problem for second order partial differential equations.
January (Week-3)	<ul style="list-style-type: none">• Method of separation of variables: Laplace's equation in Cartesian Co-ordinate system.
January (Week-4)	<ul style="list-style-type: none">• Method of separation of variables: Wave in Cartesian Co-ordinate system.
February (Week-1)	<ul style="list-style-type: none">• Revision and Tests

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Topic
February (Week-2)	<ul style="list-style-type: none">• Method of separation of variables: Heat equation (one and two dimension) in Cartesian Co-ordinate system.
February (Week-3)	<ul style="list-style-type: none">• Revision and Tests
February (Week-4)	<ul style="list-style-type: none">• Revision and Tests

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 3rd Semester
Subject:	Mathematics
Paper:	Statics
Year/Semester:	2nd year/ 3rd Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Forces Acting at a Point
October (Week-3)	<ul style="list-style-type: none">• Parallel Forces
October (Week-4)	<ul style="list-style-type: none">• Revision and Tests
November (Week-1)	<ul style="list-style-type: none">• Moments

06 Nov. 2020 to 05 Dec. 2020

Month/Week	Topic
November (Week-2)	<ul style="list-style-type: none">• Couples
November (Week-3)	<ul style="list-style-type: none">• Analytical Condition of Equilibrium of Coplanar Forces
November (Week-4)	<ul style="list-style-type: none">• Revision and Tests
December (Week-1)	<ul style="list-style-type: none">• Friction

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Topic
December (Week-2)	<ul style="list-style-type: none">• Centre of Gravity
December (Week-3)	<ul style="list-style-type: none">• Virtual Work
December (Week-4)	<ul style="list-style-type: none">• Forces in Three Dimensions
January (Week-1)	<ul style="list-style-type: none">• Revision and Tests

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Topic
January (Week-2)	<ul style="list-style-type: none">• Wrenches
January (Week-3)	<ul style="list-style-type: none">• Null lines and Plane
January (Week-4)	<ul style="list-style-type: none">• Revision and Tests
February (Week-1)	<ul style="list-style-type: none">• Stable Equilibrium

06 Feb. 2021 to 25 Feb. 2021

Month/Week	Topic
February (Week-2)	<ul style="list-style-type: none">• Unstable and Neutral Equilibrium
February (Week-3)	<ul style="list-style-type: none">• Revision and Tests
February (Week-4)	<ul style="list-style-type: none">• Revision and Tests

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma
Class and Section:	B.A. 2 nd Year
Subject:	Mathematics
Paper:	Programming in C and Numerical Methods
Year/Semester:	2 nd Year/4 th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Solution of algebraic and transcendental equations
March(Week-4)	Simultaneously linear algebraic equations
April (Week-1)	Simultaneously linear algebraic equations- continued
April (Week-2)	Revision and Tests

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Computers: General introduction and Introduction to C
April (Week-4)	Data-Types, Operators and Expressions
May(Week-1)	Decision control structures and Loops
May (Week-2)	Revision and Tests

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Functions and C preprocessors
May (Week-4)	Arrays and Strings
June (Week-1)	Structure, Unions and Pointers
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Practicals
June (Week-4)	Practicals
July (Week-1)	Practicals

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 2 nd Year
Subject:	Mathematics
Paper:	Special Functions and Integral Transforms
Year/Semester:	2 nd Year/4 th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Power Series
March(Week-4)	Power Series- continued
April (Week-1)	Bessel's equations and functions
April (Week-2)	Revision and Tests

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Legendre's equations and functions
April (Week-4)	Hermite's equations and functions
May(Week-1)	Revision and Tests
May (Week-2)	Laplace Transformations

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Inverse Laplace Transformations
May (Week-4)	Revision and Tests
June (Week-1)	Use of Laplace Transformations in Integral Equations
June (Week-2)	Use of Laplace Transformations in Differential Equations

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Fourier Transforms
June (Week-4)	Solution of Differential equations by Fourier Transforms
July (Week-1)	Revision and Tests

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Dr. Sushma
Class and Section:	B.A. 2nd Year
Subject:	Mathematics
Paper:	Sequences and Series
Year/Semester:	2nd Year/4th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Topology of Real numbers
March(Week-4)	Topology of Real numbers- continued
April (Week-1)	Revision and Tests
April (Week-2)	Sequences

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Sequences – continued
April (Week-4)	Revision and Tests
May(Week-1)	Infinite Series
May (Week-2)	Infinite Series- continued

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Revision and Tests
May (Week-4)	Alternating Series
June (Week-1)	Arbitrary Series
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Infinite Product
June (Week-4)	Revision and Tests
July (Week-1)	Revision and Tests