

Kanya Mahavidyalaya, Kharkhoda (Sonepat)

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 3 rd Year
Subject:	Mathematics
Paper:	Linear Algebra
Year/Semester:	3 rd Year/6 th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Vector spaces and sub-spaces
March(Week-4)	Basis and Dimension
April (Week-1)	Basis and Dimension – continued Quotient spaces
April (Week-2)	Revision and Tests

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Linear transformations
April (Week-4)	Rank and Nullity
May(Week-1)	Algebra of linear transformations
May (Week-2)	Revision and Tests

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Matrix of linear transformations
May (Week-4)	Dual Spaces
June (Week-1)	Eigen values and Eigen vectors
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Inner product spaces
June (Week-4)	Linear operators on Inner product spaces
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. 3 rd Year
Subject:	Mathematics
Paper:	Real and Complex Analysis
Year/Semester:	3 rd Year/6 th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Jacobians
March(Week-4)	Beta and Gamma Functions
April (Week-1)	Revision and Test
April (Week-2)	Double Integral

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Triple Integral
April (Week-4)	Revision and test
May(Week-1)	Fourier Series
May (Week-2)	Fourier Series- continued

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Revision and test
May (Week-4)	Extended complex Plane, Stereographic Projection
June (Week-1)	Calculus of Complex Functions
June (Week-2)	Revision and test

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Elementary Functions
June (Week-4)	Mobius Transformations
July (Week-1)	Critical Mappings

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Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Shalini
Class and Section:	B.A. 3 rd Year
Subject:	Mathematics
Paper:	Dynamics
Year/Semester:	3 rd Year/6 th Semester

16 March 2021 to 15 April 2021

Month/Week	Topic
March(Week-3)	Motion along a plane curve
March(Week-4)	Relative Motion
April (Week-1)	Revision and Tests
April (Week-2)	Simple Harmonic Motion

16 April 2021 to 15 May 2021

Month/Week	Topic
April (Week-3)	Elastic Strings
April (Week-4)	Revision and Tests
May(Week-1)	Newton's Law of Motion
May (Week-2)	Work, Power and Energy

16 May 2021 to 15 June. 2021

Month/Week	Topic
May (Week-3)	Revision and Tests
May (Week-4)	Motion of a particle on smooth and rough plane curve
June (Week-1)	Projectiles
June (Week-2)	Revision and Tests

16 June 2021 to 06 July 2021

Month/Week	Topic
June (Week-3)	Central orbits
June (Week-4)	Kepler's Law of Planetary Motion and motion in three dimensions
July (Week-1)	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. 5th Semester
Subject:	Mathematics
Paper:	Groups and Rings
Year/Semester:	3rd Year/ 5th Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Definition of Group with examples
October (Week-3)	<ul style="list-style-type: none">• Subgroups and related theorems
October (Week-4)	<ul style="list-style-type: none">• Coset
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">• Homomorphism and Automorphism
November (Week-3)	<ul style="list-style-type: none">• Cayley's Theorem, Centre and Derived group of a group
November (Week-4)	<ul style="list-style-type: none">• Revision and Tests
December (Week-1)	<ul style="list-style-type: none">• Permutation Group

06 Dec. 2020 to 05 Jan. 2021

Month/Week	Topic
December (Week-2)	<ul style="list-style-type: none">• Definitions of Rings, Subrings, ideals and Quotient Rings with examples
December (Week-3)	<ul style="list-style-type: none">• Theorems related to Rings, Subrings, ideals and Quotient Rings
December (Week-4)	<ul style="list-style-type: none">• Revision and Tests
January (Week-1)	<ul style="list-style-type: none">• Homomorphism of Rings

05 Jan. 2021 to 06 Feb. 2021

Month/Week	Topic
January (Week-2)	<ul style="list-style-type: none">• Fields and Integral Domain with related theorem
January (Week-3)	<ul style="list-style-type: none">• Revision and Tests
January (Week-4)	<ul style="list-style-type: none">• Euclidean Rings
February (Week-1)	<ul style="list-style-type: none">• Euclidean Rings-continued

06 Feb. 2021 to 25 Feb. 2021

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

Kanya Mahavidyalaya, Kharkhoda (Sonapat)

Lesson Plan Session 2020-21

Name of the Assistant/Associate Professor:	Mrs. Indu
Class and Section:	B.A. 5th Semester
Subject:	Mathematics
Paper:	Real Analysis
Year/Semester:	3rd Year/ 5th Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Riemann Integral
October (Week-3)	<ul style="list-style-type: none">• Conditions of Riemann Integrability
October (Week-4)	<ul style="list-style-type: none">• Fundamental and Mean values Theorem of Integral Calculus
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">• Improper Integral
November (Week-3)	<ul style="list-style-type: none">• Convergence of Improper Integral
November (Week-4)	<ul style="list-style-type: none">• Integral as a function of parameter
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">• Revision and Tests
December (Week-3)	<ul style="list-style-type: none">• Metric Spaces
December (Week-4)	<ul style="list-style-type: none">• Open and Closed sets in Metric Spaces
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">• Completeness in Metric Spaces
January (Week-3)	<ul style="list-style-type: none">• Continuity and Uniform Continuity in Metric Space
January (Week-4)	<ul style="list-style-type: none">• Compactness in Metric Space
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">• Connectedness in Metric Space
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. 5th Semester
Subject:	Mathematics
Paper:	Numerical Analysis
Year/Semester:	3rd Year/ 5th Semester

06 Oct. 2020 to 05 Nov. 2020

Month/Week	Topic
October (Week-2)	<ul style="list-style-type: none">• Finite Difference Operators
October (Week-3)	<ul style="list-style-type: none">• Interpolation with equal intervals
October (Week-4)	<ul style="list-style-type: none">• Interpolation with unequal intervals
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">• Central Difference Interpolation
November (Week-3)	<ul style="list-style-type: none">• Probability Distribution
November (Week-4)	<ul style="list-style-type: none">• Poisson's Distribution and Normal Distribution
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">• Numerical Differentiation
December (Week-3)	<ul style="list-style-type: none">• Eigen Value Problems
December (Week-4)	<ul style="list-style-type: none">• Numerical Integration
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">• Numerical Solution of Ordinary Differential Equations by Single step methods
January (Week-3)	<ul style="list-style-type: none">• Numerical Solution of Ordinary Differential Equations by Multiple step methods
January (Week-4)	<ul style="list-style-type: none">• Revision and Tests
February (Week-1)	<ul style="list-style-type: none">• Practicals

06 Feb. 2021 to 25 Feb. 2021

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