

“Let COVID-19 Not Stop Learning”

Department of Mathematics

Class – B.SC 1

Sr no	Teacher's Name	Subject	Name of the Topic	Web Link/ PDF Link/Any other Material Supplied
1	Prof. Nidhi Joshi	Geometry	Shifting of origin Transformation of axes Surface and Volume of sphere Equation of Coaxial system and Radical plane limiting points co-axial system and radical plane limiting points Sphere Concept of circular and elliptical cylinders General cylinder and right circular and enveloping cylinders Cone	Recommended book of geometry (Precise) https://youtu.be/jndYnMiGTnE https://youtu.be/v_oZMmUII58 https://youtu.be/IT6eeyWCBjU https://youtu.be/IT6eeyWCBjU https://youtu.be/ODOAX61Lr3Y https://youtu.be/uJWXVw-PLk8 https://youtu.be/_bCcxuLIiro https://youtu.be/E8DOVCqLBx8

			<p>Tangent plane to a cone</p> <p>Theory of equations</p>	<p>https://youtu.be/GGDBQOyaziM</p> <p>https://drive.google.com/file/d/18L4-qNao2bPr7Zq8Jxj9ymEGwoMQ3X9q/view?usp=drivesdk</p> <p>https://drive.google.com/file/d/18LY5rKY1clmTb4HNRS6HNqe-NQBNXXR9/view?usp=drivesdk</p> <p>https://drive.google.com/file/d/18OWsjHtR483dY2EW3VqPK6NrN_suxzYd/view?usp=drivesdk</p>
2	Prof. Mandeep Singh	Geometry	<p>Sphere, Surface area of sphere and volume</p> <p>Intersection of a sphere by a plane</p> <p>equation of sphere passing through 4 points</p> <p>quadrature</p> <p>rectification</p> <p>right circular cone</p>	<p>https://youtu.be/VWkzkiEPsoQ</p> <p>https://youtu.be/v_oZMmUII58</p> <p>https://youtu.be/cc6glXTf5NE</p> <p>https://youtu.be/EdQn6Do0E50</p> <p>https://youtu.be/76xPEUD4qtg</p> <p>https://youtu.be/n4JJ3fNKHUc</p> <p>https://youtu.be/CepTQ7B3uZo</p>

B.SC 2ND YEAR

Sr no	Teacher's Name	Subject	Name of the Topic	Web Link/ PDF Link/Any other Material Supplied
1	Prof. Nidhi Joshi	Calculus	<p>Infinite series, convergence of infinite series</p> <p>Comparisons test for convergence of series</p> <p>Cauchy's integral test</p> <p>Cauchy's root test convergence of series</p> <p>D' Alembert ratio test for convergence of series</p> <p>Rabee's test for convergence series</p> <p>Gauss test, infinite series</p> <p>Logarithmic test for convergence series</p> <p>Alternating series ,Leibnitz test</p> <p>Successive differentiation</p> <p>Sequences assignment for last ten year</p>	<p>https://youtu.be/vfg1mmsSMMM</p> <p>https://youtu.be/S-qzRWJOlf8</p> <p>https://youtu.be/FyTAQhGoSdU</p> <p>https://youtu.be/tF4vDQ6X7Kg</p> <p>https://youtu.be/9sLsX9DV5Fs</p> <p>https://youtu.be/99Hpoc1-uDo</p> <p>https://youtu.be/M7q8G7RmmpA</p> <p>https://youtu.be/d78ceBDfYQE</p> <p>https://youtu.be/AG5mvNsxlXo</p> <p>https://youtu.be/EGnI8WyYb3o</p> <p>https://drive.google.com/file/d/1yWEXkl09G6XB0EaMJ6WzfAWdEPLy970a/view?usp=drivesdk</p> <p>https://drive.google.com/file/d/1tFzQO_LxfXlzsK_7XTeL4HBxx3I5vgHe/view?usp=drivesdk</p>

				https://drive.google.com/file/d/1I7cxpP_IwfBuwX6XXjnT6KPfTC05Qkr/view?usp=drivesdk https://drive.google.com/file/d/1LrC2E0iKbLwhYfKw0X-HRdtpa-rfC17M/view?usp=drivesdk https://drive.google.com/file/d/1NMVer0yyVV5trtCADT1OgDBP7t9uK8fO/view?usp=drivesdk https://drive.google.com/file/d/1crkqnN4dkBVRRI3uGVyXXIXY4NJU6c1/view?usp=drivesdk
2	Prof. Mandeep Singh	Calculus	Convolution Theorem Laplace transform Concepts of motion with constant acceleration	https://youtu.be/KI9rKYHg590 https://youtu.be/3KtUt78p9a4 https://youtu.be/JmrLa2doO3Y

B.SC 3RD YEAR

Sr no	Teacher's Name	Subject	Name of the Topic	Web Link/ PDF Link/Any other Material Supplied
1	Prof. Nidhi Joshi	Algebra	Runga Kutta Method (Order 2)	https://youtu.be/5MTG1TCZFFY
			Runga Kutta Method (Order 4)	https://youtu.be/zhmGnOv3Zzg
			Gauss Elimination Method	https://youtu.be/T8LafCup3cA
			Gauss Seidel Method	https://youtu.be/gxy6VI1hEfs
			Relaxation Iteration Method	https://youtu.be/M1pB_eIeOiU
			LU Decomposition Method	https://youtu.be/dwu2A3-ITGU
			Jacobi Method	https://youtu.be/jPv5pP1kOco
			Eigen Power Value Method	https://youtu.be/IOH6wAbVh9c
			Vector Space Method	https://youtu.be/Y49wZ4MCWnY
			Union of 2 subspaces is a subspace iff one of them is contained other	https://youtu.be/qJa4rl8heOY
			Linear Span	https://youtu.be/FlwQ2m8LNaA
			Concept of linear sum, direct sum	https://youtu.be/kSyYgXvBpQQ
			Concept of basis, Finite dimensional vector space	https://youtu.be/pG-IAFOiOw4

2	Prof. Mandeep Singh	Algebra	Gauss Divergence Theorem Double Integral and area by double integration Cayley Hamilton Theorem	https://youtu.be/ZqcCOjmrNSc https://youtu.be/db7d_a0wiUg https://youtu.be/tNSy-jIjK4I
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