Lesson Plan even semester 2023-2024 Name of Teacher: Gaurav Saini Subject: Mathematics

Class and Subject/	January	February	March	Арпі
BCA IV	Basic Statistics: Measure of Central	Distribution Patterns: Types of	Tests of significance: Z-test, Student	ANOVA: Meaning, Assumptions,
Sem	Tendency, preparing frequency,	Theoretical Probability; Normal Binomial	T-test, Chi-square test. Curve litting:	Cocnran's Inegretic (only
COSM		Poisson distribution. Correlation and	Method of least squares and	statement), One way classification,
	Mean Geometric, Mean Harmonic,	Regression: Types of Correlation,	Polynomial fit.	ANOVA Lable for One-way
	Mean, Media, Mode. Measure of	Properties of Coefficient of Correlation,		Classified Data, Baye's theorem in
	Dispersion: Range, Variance and	Methods of studying Correlation; Aim of		decision-making, Forecasting
	Standard Deviations; Frequency	Regression Analysis, Kinds of		techniques.
	Distributions and Cumulative	Regression Analysis.		
	istributions: M			
	Moments Generating Functions			
BA IV	Boundedness of the set of real numbers;	Sequence: Real Sequences and their	Infinite series: D-Alembert's ratio test,	ing series, Leib
Sem	least upper bound, greatest lower bound	convergence, Theorem on limits of	Raabe's test, Logarithmic test, de	absolute and conditional
Sequence	of a set, neighborhoods, interior points,	sequence, Bounded and monotonic	Morgan and Bertrand's test, Cauchy's	convergence, Arbitrary series: abel's
and	isolated points, limit points, open sets,	sequences, Cauchy's sequence, Cauchy	Nth root test, Gauss Test, Cauchy's	lemma, Abel's test, Dirichlet's test,
Series	closed set, interior of a set, closure of a	general principle of convergence,	integral test, Cauchy's condensation	Insertion and removal of parenthesis,
	set in real numbers and their properties.	Subsequences, Subsequential limits.	test.	rearrangement of terms in a series,
	Bolzano-Weiestrass theorem, Open	Infinite series: Convergence and		Dirichlet's theorem, Riemann's Re-
	covers, Compact sets and Heine-Borel	divergence of Infinite Series, Comparison		arrangement theorem, Pringsheim's
	Theorem	Tests of positive terms Infinite series,		theorem (statement only),
		Cauchy's general principle of		Multiplication of series, Cauchy
		Convergence of series, Convergence and		product of series, (definitions and
		divergence of geometric series, Hyper		examples only) Convergence and
		Harmonic series or p-series.		absolute convergence of infinite
				products.
BA VI	ದ	Mass, Momentum and Force. Newton's	Motion on smooth and rough plane	General motion of a rigid body.
Sem .		laws of motion. Work, Power and Energy.	curves. Projectile motion of a particle	Central Orbits, Kepler laws of
Dynamics	directions. Relative velocity and	Definitions of Conservative forces and	in a plane. Vector angular velocity	motion. Motion of a particle in three
	acceleration. Simple narmonic motion.	Impulsive forces.		dimensions. Acceleration in terms of
	Elasiic sulligs.			different co-ordinate systems.