साप्ताहिक विच्छेदित पाठ्यक्रम

मई 2024-मार्च 2025

कक्षा-12

विज्ञान संकाय

एकीकृत शैक्षणिक कैलेंडर 2024 के साथ समन्वित

झारखण्ड शैक्षिक अनुसंधान एवं प्रशिक्षण परिषद्, राँची
Jharkhand Council of Educational Research and Training, Ranchi

साप्ताहिक विच्छेदित पाठ्यक्रम
2024-25

कक्षा – 12

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झारखण्ड शैक्षिक अनुसंधान एवं प्रशिक्षण परिषद्, राँची

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MATH

Month	Week	Name of Chapter	Subtopic
May & June	May 1st, 2nd, 3rd, 4th & 5th (17 days)	1. Relations & Functions	1.1) Introduction 1.2) Types of Relations 1.3) Types of Functions 1.4) Composition of Functions and Invertible Function
	June 1st, 2nd & 3rd (6 days)	2. Inverse Trigonometric Functions	2.1) Introduction 2.2) Basic Concepts
	June 4th & 5th (10 days)	2. Inverse Trigonometric Functions	2.3) Properties of Inverse Trigonometric Functions
July	1st (6 day)	3.Matrices	3.1) Introduction 3.2) Matrix 3.3) Types of Matrices 3.4) Operations on Matrices
	2nd (6 days) 3rd (4 days)	3.Matrices	3.5) Transpose of a Matrix 3.6) Symmetric and Skew Symmetric Matrices 3.7) Invertible Matrices
	4th (6 days)	4. Determinants	4.1) Introduction 4.2) Determinant 4.3) Area of a Triangle 4.4) Minors and Cofactors
	5th (3 days)	4. Determinants	4.5) Adjoint and Inverse of a Matrix 4.6) Applications of Determinants and Matrices
August	1st (3 days)	5. Continuity and Differentiability	5.1) Introduction 5.2) Continuity
	2nd (6 days)	5. Continuity and Differentiability	5.3) Differentiability
	3rd (5 days)	5. Continuity and Differentiability	5.4) Exponential and Logarithmic Functions 5.5) Logarithmic Differentiation
	4th (5 days)	5. Continuity and Differentiability	5.6) Derivatives of Functions in parametric Forms 5.7) Second Order Derivative
	5th (5 days)	6.Application of Derivatives	6.1) Introduction 6.2) Rate of change of Quantities

MATH

Month	Week	Name of Chapter	Subtopic
September	1st (0 days) 2nd (5 days)	6.Application of Derivatives	6.3) Increasing and Decreasing Functions
		6.Application of Derivatives	6.4) Maxima and Minima
	3rd (5 days)	7. Integrals	7.1) Introduction 7.2) Integration as an Inverse process of Differentiation
	4th (3 days)	7. Integrals	7.3) Methods of Integration 7.4) Integrals of some particular functions
	5th (6 days) 6th (1 days)	7. Integrals	7.5) Integration by partial functions 7.6) Integration by parts 7.7) Definite Integrals
October	1st (3 days)	7. Integrals	7.8) Fundamental Theorem of calculus 7.9) Evaluation of definite Integrals by Substitution
	2nd (3 days)	7. Integrals 8. Application of Integrals	7.10) Some properties of Definite Integrals. 8.1) Introduction 8.2) Area under simple curves
	3rd (6 days)	9. Differential Equations	9.1) Introduction 9.2) Basic Concepts
	4th (6 days)	9. Differential Equations	9.3) General and particular solutions of a differential equation 9.4) Methods of solving first order, first degree differential equations
	5th(3 days)	10. Vector Algebra	10.1) Introduction 10.2) Some basic concept
November	1st (1 days) 2nd (4 days)	10. Vector Algebra	10.3) Types of vectors 10.4) Addition of vectors 10.5) Multiplication of a vector by a scalar 10.6) Product of two vectors
	3rd (5 days)	11. Three dimensional Geometry	11.1) Introduction 11.2) Direction Cosine and Direction Ratios of a Line. 11.3) Equation of a line in space
		11. Three dimensional Geometry	11.4) Angle between two lines
	5th (5 days)	11. Three dimensional Geometry	11.5) Shortest Distance between two lines

MATH

Month	Week	Name of Chapter	Subtopic
December	1st (0 days)	11. Three dimensional Geometry	11.5) Shortest Distance between two lines
	2nd (6 days)	12. Linear Programming	12.1) Introduction 12.2) Linear Programming problem and its mathematical formulation
	3rd (6 days)	13. Probability	13.1) Introduction 13.2) Conditional Probability
	4th (5 days) 5th (2 days) 6th (0 days)	13. Probability	13.3) Multiplication Theorem on probability 13.4) Independent Events 13.5) Baye's Theorem
January (20 days) February (20 days) March (21 days) till board examination			Revision & Test
Total Working Days - 224 Days (Tentative)			