

GOVERNMENT COLLEGE BIROHAR (JHAJJAR)

Summary of Lesson Plans of College Faculty for Academic Session 2024- 2025

Name of Assistant/Associate Professor: Nisha Rani

Class & Sem.: B.Sc II (2nd Sem) Subject: Calculus

Months	Topics/Chapters to be Covered
Jan 2025	
Feb 2025	Limit & continuity (e-s def), discontinuity & its types, Differentiability of the functions, Successive differentiation, Leibnitz Rule & its application, L'Hospital's rule, Indeterminate form, Taylor's theorem with Lagrange's form of remainders, Maclaurin's & Taylor's Series expansions. Assignment-I
March 2025	Tangent & Normal, Asymptotes of curves in Cartesian & polar Co-ordinates, Curvature, Radius of Curvature for Cartesian Curves, parametric, Polar & Pedal form of Curves, Circle of Curvature, Chord of Curvature, Text
April 2025	Tracing of Curves in Cartesian, parametric & polar Co-ordinates of Standard curves Cubic Curves, Semicubical Parabola, folium of Descartes, Cardoid, Lamniscate of Bernoulli, Astroid, Rose Curve, Logarithm, Spiral, Epical, cycloid, Catenary, Assignment-2
May 2025	Functions of Several variables, Limits & Continuity, Partial differentiation, Euler's theorem on homogeneous functions, chain rule, Directional Derivatives, Gradient vector & Tangent plane, Text-2

Nisha
Signature of Asst/Asso. Professor

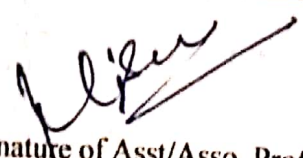
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Name of Assistant/Associate Professor: Nisha Pani

Class & Sem.: I (2nd Sem) Subject: MDC (Mathematical Reasoning)

Months	Topics/Chapters to be Covered
Feb Jan 2025	Analogy, classification, Series completion, Coding, decoding, Blood Relation, Puzzle Test.
Mar Feb 2025	Sequential Output tracing, Logical venn diagram, Alphabet Test, Number, Ranking & Time Sequence Test. Assignment - 1.
April March 2025	Mathematical operations Logical Sequenced word, Arithmetical Reasoning Test.
May April 2025	Data Interpolation & Reasoning, Tabularian, Bar Graphs, line graphs, Pie chart, venn diagrams, Analytical Reasoning mirror images. Assignment - 2.


Signature of Asst/Asso. Professor

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Name of Assistant/Associate Professor: Misha Lani

Class & Sem.: 6th Subject: Mathematics (Dynamics)

Months	Topics/Chapters to be Covered
Jan 2025	velocity & acceleration along radial, transverse tangential & normal directions. Relative velocity & acceleration. Simple harmonic motion. Elastic strings. Assignment - I.
Feb 2025	Mass, Momentum & force, Newton's laws of Motion. Work, power & energy. Definitions of conservative forces & impulsive forces. Test - I
March 2025	Motion on smooth & rough plane curves. Projectile motion of a particle in a plane. Vector angular velocity. Assignment - II
April 2025	General motion of a rigid body: Circular orbits, Kepler's Laws of motion. Motion of a particle in three dimensions. Acceleration in terms of different co-ordinate system. Test - II.



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