

Govt. College Mangali (Hisar)

Physics Lesson Plan (DSC)

Name of Teacher: Mr. Himanshu

Class: B.Sc. I

Sem: I

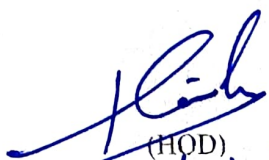
Session: 2026-27

Subject: Physics

Nomenclature of Paper: Mechanics

Paper Code: C24PHY101T

Teaching-I	15.07.2026 to 31.10.2026
Vacations (Diwali)	01.11.2026 to 10.11.2026
Teaching-II	11.11.2026 to 04.12.2026
End Semester Examinations (Major Test) (for UTD and Colleges)	07.12.2026 onwards
Winter vacations	25.12.2026 to 05.01.2027
Month	Topic
August 2026	Fundamentals of Dynamics: Moment of Inertia, Theorems of perpendicular and parallel axis, Laws of conservation in rotational mechanics, Acceleration of rolling body on an inclined plane and Flywheel.
September 2026	Elasticity: Stress, strain, Hooke's Modulus of rigidity, Elongation in heavy rod, Tension in rotating rod, Torque in rotating rod, Determination of elastic constants for material of wire by Searle's method. Minor Test and Assignments
October 2026	Gravitation and central force motion: Gravitational mass, potential, field and energy of sphere, Central force field, Two body problem and Kepler's law. Special Theory of Relativity: Michelson's Morley experiment, Postulates of special theory of relativity, Lorentz transformation and Relativistic transformation of velocity
November 2026	Variation of mass-energy equivalence, Relativistic Doppler effect and transformation of energy, momentum and force. Revision and Tests


(HOD)
(AP Physics)

Govt. College Mangali (Hisar)

Physics Lesson Plan (DSC)

Name of Teacher: Mr. Himanshu

Class: B.Sc. II

Sem: III

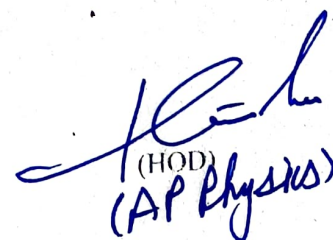
Session: 2026-27

Subject: Physics

Nomenclature of Paper: Thermodynamics and Statistical Physics

Paper Code: C24PHY301T

Teaching-I	08.07.2026 to 31.10.2026
Vacations (Diwali)	01.11.2026 to 10.11.2026
Teaching-II	11.11.2026 to 23.11.2026
End Semester Examinations (Major Test) (for UTD and Colleges)	25.11.2026
Winter vacations	25.12.2026 to 05.01.2027
Month	Topic
August 2026	Thermodynamics-I: Thermodynamics systems, Laws of Thermodynamics and different types of heat thermodynamic process, Carnot Theorem and Joule Thomson effect.
September 2026	Thermodynamics-II: Clausius-Clapeyron Equation, Study of Different types of Thermodynamic functions and Maxwell Relations. Statistical Physics-I: Distribution of Particles in two boxes, Microstates and Macrostates. Minor Test and Assignments
October 2026	Postulates of statistical mechanics, Statistical Physics-II: Maxwell-Boltzmann statistics, Ideal gas in Equilibrium-energy and speed distribution laws, Bose-Einstein statistics and Fermi-Dirac statistics and
November 2026	Classical versus Quantum Statistics. Revision and Tests


(HOD)
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Physics Lesson Plan (DSC)

Name of Teacher: Mr. Himanshu

Class: B.Sc. III

Sem: V

Session: 2026-27

Subject: Physics

Nomenclature of Paper: Quantum Atomic & Nuclear Physics

Paper Code: C24PHY501T

Teaching-I	08.07.2026 to 31.10.2026
Vacations (Diwali)	01.11.2026 to 10.11.2026
Teaching-II	11.11.2026 to 23.11.2026
End Semester Examinations (Major Test) (for UTD and Colleges)	25.11.2026
Winter vacations	25.12.2026 to 05.01.2027
Month	Topic
August 2026	Basics: Wave function, Schrodinger equation, Different types of operators and their corresponding expectation values.
September 2026	Application of Schrodinger Wave Equation: Solution of Schrodinger equation for 1-D box, 1-D Harmonic Oscillator problem solution, phase and group velocity. <i>Minor Test and Assignments</i>
October 2026	Atomic Physics: Larmor's precession, LS coupling, and JJ coupling Basic Properties of Nuclei: p-e and p-n hypothesis, Nuclear properties; Nuclear mass, size, spin, parity, magnetic moment quadrupole moment and binding energy curve.
November 2026	Radioactivity: Different types of Radioactivity decays, Geiger Nuttal law and different types of nuclear hypothesis. <i>Revision and Tests</i>


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(AP Physics)