



Physics by fiziks

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"Discipline is the Bridge between Goal and Success"

Study Plan of Mechanics and General Properties of Matter for Pre-recorded Batches

(For IIT-JAM, JEST, TIFR and M.Sc Entrance and B.Sc Students)

Days	Enter Your Dates	Topics
Day: 1		Lecture 1: Stability Analysis
		Lecture 2: Phase Curve
Day: 2		Lecture 3: Small Oscillation in One-Dimension
		Lecture 4: Kinematics Motion in a Straight Line Part-1
		Solve Assignments No. 1: Lect-1 to Lect-3
Day: 3		Lecture 5: Kinematics Motion in a Straight Line Part-2
		Lecture 6: Projectile Motion
Day: 4		Lecture 7: Newtons Law of Motion
		Lecture 8: Newtons Law - Friction
Day: 5		Lecture 9: Newtons Law - Pseudo Force
		Lecture 10: Equation of Constraint
Day: 6		Revision
Day: 7		Revision
Day: 8		Lecture 11: Equation of Constraint Problem
		Lecture 12: Newtons Law Problem
		Solve Assignment No. 2: Lect-4 to Lect-12
Day: 9		Lecture 13: Circular Motion
		Lecture 14: Newton's Law in 2-Dimensions Part-1
Day: 10		Lecture 15: Newton's Law in 2-Dimensions Part-2
		Lecture 16: Variable Mass and Equation of Motion
		Solve Assignment No. 3: Lect-13 to Lect-15
Day: 11		Lecture 17: Variable Mass Part-1
		Lecture 18: Variable Mass Part- 2
		Solve Assignment No. 4: Lect-16 to Lect-18
Day: 12		Lecture 19: Properties of Central Force
		Lecture 20: Application of Effective Potential
Day: 13		Class Test 1: Lect-1 to Lect-12
Day: 14		Class Test 2: Lect-13 to Lect-18
Day: 15		Lecture 21: Differential Equation of Orbit
		Lecture 22: Kepler's Problem
Day: 16		Lecture 23: Kepler's Law
		Lecture 24: Problems on Central Forces
		Solve Assignments No. 5: Lect-19 to Lect-24
Day: 17		Lecture 25: Center of Mass Part-1
		Lecture 26: Center of Mass Part-2
Day: 18		Lecture 27: Centre of Mass Motion
		Lecture 28: Moment of Inertia Part-1
		Solve Assignments No. 6: Lect-25 to Lect-27
Day: 19		Lecture 29: Moment of Inertia Part-2
		Lecture 30: Moment of inertia Part-3
Day: 20		Revision
Day: 21		Class Test 3: Lect-19 to Lect-24
Day: 22		Lecture 31: Moment of inertia Part-4
		Lecture 32: Moment of Inertia Tensor

Day: 23	Lecture 33: Moment of Inertia Tensor Problem
	Lecture 34: Collision Part-1
	Solve Assignment No. 7, 8: Lect-28 to Lect-33
Day: 24	Lecture 35: Collision Part-2
	Lecture 36: Work, Power and Energy
	Solve Assignments No. 9: Lect-34 to Lect-35
Day: 25	Lecture 37: Work, Power and Energy Numericals
	Lecture 38: Impulse and Momentum
	Solve Assignments No. 10: Lect-36 to Lect-38
Day: 26	Lecture 39: Principles of Rotational Motion
	Lecture 40: Rolling Friction and Rotational Energy
Day: 27	Revision
Day: 28	Class Test 4: Lect-25 to Lect-33
Day: 29	Lecture 41: Torque Part-1
	Lecture 42: Torque Part- 2
Day: 30	Lecture 43: Angular Momentum
	Lecture 44: Conservation of Angular Momentum
	Solve Assignments No.11: Lect-39 to Lect-44
Day: 31	Lecture 45: Fluid and its Properties
	Lecture 46: Fluid Pressure and its Measurement
Day: 32	Lecture 47: Archimedes Principle and Buoyancy
	Lecture 48: Bernoulli Equation
	Lecture 49: Applications of Bernoulli Equation
Day: 33	Lecture 50: Surface Tension
	Lecture 51: Stokes Law and Capillarity
	Lecture 52: Stokes Law and Poiseulli Formula
	Solve Assignment No. 12,13,14: Lect-45 to Lect-52
Day: 34	Class Test 5: Lect-34 to Lect-44
Day: 35	Class Test 6: Lect-45 to Lect-52