		LECTURE PLAN FOR NEET_PHYSI	CS (2021)		
S. No.	Chapter	Topics	Lecture number	Date of Lecture	Date of Completion
1	Basic Mathematics	Trigonometry/Algebra-Basic equation	1	-	23-May-21
2		Graph – Straight Line, Parabola and Circle	1	-	
3		Differentiation	1	-	
4		Integration with Graphical Meaning	1	-	
5		Introduction, Physical Quantities, Units, System of units, Fundamental, Derived, and supplementary units, Conversion of units	1	28-May-21	09-Jun-21
6	1	Dimentionsal Analysis, Homogenity principle.	1	29-May-21	
7	Units &	Dimensional Analysis, Uses and limitations of dimensional analysis.	1	31-May-21	
8	Measurement	Measurements: Parallax Method, Significant Figure, Rounding off.	1	02-Jun-21	
9		Errors, Propagation of errors	1	03-Jun-21	
10		Questions on error analysis	1	04-Jun-21	
11		Vernier Callipers, Screw gauge	1	07-Jun-21	
12		Problem practice (PYQ)	1	09-Jun-21	
13		Distance vs Displacement, Average speed, Average Velocity, Average Acceleration	1	11-Jun-21	09-Jul-21
14		Speed/Velocity	1	14-Jun-21	
15		Questions in speed, velocity and acceleration	1	16-Jun-21	
16	Motion in a	Acceleration & Non-uniformly Accelerated Motion	1	18-Jun-21	
17		Accelerated, Type of motion, equations of motion	1	21-Jun-21	
18	straightline	Questions on Constant acceleration-1	1	23-Jun-21	
19		Questions on Constant acceleration-2	1	25-Jun-21	
20		Motion Under Gravity -1	1	28-Jun-21	
21		Motion Under Gravity -2	1	30-Jun-21	
22		Graph of one Dimension -1	1	02-Jul-21	
23		Graph of one Dimension -2	1	05-Jul-21	
24		Relative motion in one Dimension	1	07-Jul-21	
25		Problem practice (PYQ)	1	09-Jul-21	
26		Vectors (Introduction), Types of vectors, Unit vectors, Angle between vectors	1	12-Jul-21	
27		Addition and Subtraction of vectors, Resolving of vectors	1	14-Jul-21	
28		Dot product and application	1	16-Jul-21	
29		Cross product and applications	1	19-Jul-21	
30	Motion in a plane	General motion of 2D	1	23-Jul-21	07-Aug-21
31		Projectile motion. Ground to ground projectile	1	26-Jul-21	
32		Projectile from a tower.	1	28-Jul-21	
33		Relative Motion in 2D (Rain Man Problem, minimum distance of Approach.)	1	30-Jul-21	07-Aug-21
34		River Swimmer Problems, miscellaneous problems	1	02-Aug-21	
35		Circular motion, Definition of angular variable, Centripetal acceleration, uniform and non uniform circular motion.	1	04-Aug-21	
36		Problems on Circular motion	1	06-Aug-21	
37		Problem practice(PYQ)	1	07-Aug-21	

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38		Newton's three laws	1	09-Aug-21	
		Impulse, Impulse Momentum theorem, Introduction			
39		to conservation of linear momentum (Theroritical	1	11-Aug-21	
		examples only)			
40		Equilibrium of forces and free body diagrams,	1	13-Aug-21	
		common forces Tension, Normal reaction			
41		Spring, weighing machine and spring balance, Pulley,	1	14-Aug-21	
40	Laws of Motion	Atwood machine,	4	46.4 24	27-Aug-21
42		Constraint relations.	1	16-Aug-21	
43		Questions on equilibrium and motion using	1	18-Aug-21	
4.4	-	constraints	1	20 Aug 21	
44		Friction 1	1	20-Aug-21	
	-	Friction 2	1	21-Aug-21	
46	-	Pseudo Force	1	23-Aug-21	
47		Dynamics of Circular motion	1	25-Aug-21	
48		Problem practice (PYQ)	1	27-Aug-21	
49		Work, Work Done by constant force, Work done by variable force	1	28-Aug-21	
50	-		1	01-Sep-21	
30	-	Work energy theorem Potential energy, Conservative forces, Relation	1	01-3ep-21	
51		between force and potential energy	1	03-Sep-21	
52	Work, Energy and	Equilibrium and its types	1	04-Sep-21	12 San 21
53	Power	Conservation of mechanical energy	1	06-Sep-21	13-Sep-21
54	-	Vertical circular motion 1	1	08-Sep-21	
55	-	Vertical circular motion 2	1	10-Sep-21	
56	-	Power	1	11-Sep-21	
57	-	Problem practice (PYQ)	1	· ·	
58		Location of center of mass	1	13-Sep-21 15-Sep-21	
59		Location of center of mass(negative system)	1	17-Sep-21	
33		Motion of center of mass(Velocity and acceleration	1	17-3ep-21	
60		of center of mass). Conservation of linear	1	18-Sep-21	
00		momentum.	1 18-3ер-21	16-3ep-21	
		Applications of conservation of linear momentum,			
61	Center of mass	Jumping from the cart, recoil of gun, explosion of	1	20-Sep-21	27-Sep-21
01	Center or mass	bombs	_	20 3cp 21	27 3CP 21
62		Collisions, Elastic/inelastic, headon	1	22-Sep-21	
- 02		velocities after collision and loss of Kinetic energy	-	22 3cp 21	
63		and questions	1	24-Sep-21	
64		oblique collisions.	1	25-Sep-21	
65		Problem practice (PYQ)	1	27-Sep-21	
		Moment of inertia, Perpendicular axis theorem,			
66	System of Particles	parallel axis theorem.	1	29-Sep-21	
67		Radius of gyration and miscellaneous problems	1	01-Oct-21	
68		Definition and Calculation of Torque	1	04-Oct-21	
69		Rotational equilibrium	1	06-Oct-21	
70		Newton's second law in Rotation	1	08-Oct-21	
71		Kinematics of Rolling motion	1	09-Oct-21	20-Oct-21
72	1	Dynamics of rolling motion		11-Oct-21	
70	1	Kinetic energy in rotational motion, Conservation of			
73		mechanical energy problems.	1	13-Oct-21	
74	1	Calculation of Angular momentum	1	16-Oct-21	
75		Conservation of angular momentum	1	18-Oct-21	
76		Problem practice(PYQ)	1	20-Oct-21	

77		Nowton's Law of Cravitation	1	22-Oct-21	
//	-	Newton's Law of Gravitation,		22-001-21	
78		Gravitational Field, Acceleration due to gravity,	4	22 0-1-24	
		Variation in acceleration due to gravity due to	1 23-Oct-21	23-Oct-21	
	-	height, depth androtation of earth.			
79		Gravitational potential, Potential due to a point	1	25-Oct-21	
	-	mass,			
80	Gravitation	Potential due to a ring, potential due to spheres,	1	27-Oct-21	08-Nov-21
81		Gravitational potential energy, Relation between potential and potential energy. Escape velocity.	1	29-Oct-21	
82		Orbits, circular orbits, satellites, geostationary satellites	1	30-Oct-21	
83		kepler laws	1	01-Nov-21	
84	-	Problem practice(PYQ)	1	08-Nov-21	
		Stress, Strain, Hooke's law, Modulus of elasticity,			
85		Stress-strain Curve	1	12-Nov-21	
96	-	Analogy of a spring, Elastic potential energy, Wires	1	12 Nov 21	
86		in series and parallel	1	13-Nov-21	
87		Hanging wire, Breaking stress.	1	15-Nov-21	
88		Problem practice(PYQ)	1	17-Nov-21	
89		Pressure, Relative density, Variation of pressure with depth,	1	20-Nov-21	
90	1	Pascal's Law, Hydraulic lift and brake,	1	22-Nov-21	
91	Mechanical	Buoyancy and Archimedes Principle,	1	24-Nov-21	25.5.24
92	propertiesof solids	Problems on archimedes principle, Liquid in	1	26-Nov-21	06-Dec-21
02	-	accelerated containers	1	27 Nov. 24	
93	-	Types of flow, Bernoulli's Principle	1	27-Nov-21	
94		Applications of Bernoulli's principle (Torricelli's equation, venturimeter)	1	29-Nov-21	
95		Surface tension,	1	01-Dec-21	
96		Excess pressure in a soap bubble and a liquid drop, Capillary action,	1	03-Dec-21	
97		Viscosity, Stoke's law, Terminal velocity	1	04-Dec-21	
98		Problem practice(PYQ)	1	06-Dec-21	
99	Thermal properties of matter	Temperature, Thermometry, Thermal expansion (Linear, superficial and cubical expansion), Thermal stress and strain,	1	08-Dec-21	
100		Calorimetry, Specific heat capacity, Molar heat capacity, Latent heat of fusion and vaporization. Water equivalent.		10-Dec-21	
101		Modes of heat transfer, Thermal conduction, Rods in series and parallel,	1	11-Dec-21	18-Dec-21
102		Miscellenous circuits, Growth of ice on surface of lakes.	1	13-Dec-21	
103		Radiation, Stefan's Law	1	15-Dec-21	
104		Newton's law of cooling, Wien's displacement law.	1	17-Dec-21	
105		Problem practice(PYQ)	1	18-Dec-21	
		Postulates of Kinetic theory of gases, Ideal gas laws,		20 D 24	
106	Win aki sili s	Expression for pressure of an Ideal gas,	1	20-Dec-21	
107	Kinetic theory of Gases	Degrees of freedom, law of equipartition of energy, Speed distribution curve, Mean free path. Problem practice(PYQ)	1	22-Dec-21	22-Dec-21
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108		Zeroth law of thermodynamics, Heat, work and internal energy, First law of thermodynamics,	1	24-Dec-21	
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109	Thermodynamics	Thermodynamic processes (Isochoric, isobaric, isothermal, adiabatic, polytropic),	1	27-Dec-21	
110		Indicator diagrams	1	29-Dec-21	
111		Questions on thermodynamics process and indicator	1	31-Dec-21	07-Jan-22
	memodynamics	diagrams		31 000 21	07 Juli 22
112		Cyclic processes, Heat engine, Refrigerator, heat pump,	1	03-Jan-22	
113		Second law of thermodynamics, Carnot cycle, Entropy.	1	05-Jan-22	
114		Problem practice(PYQ)	1	07-Jan-22	
115	Oscillations	Periodic motion, Simple harmonic motion, Equations of SHM,	1	08-Jan-22	
116		Circle Diagram, Energy in SHM,	1	10-Jan-22	
117		Superposition of SHM, Time period of SHM, Linear SHM,	1	12-Jan-22	17-Jan-22
118		Angular SHM, Compound pendulum, Torsional Pendulum,	1	14-Jan-22	
119		Damped oscillations, Forced Oscillations.	1	15-Jan-22	
120		Problem practice(PYQ)		17-Jan-22	
121	- Wave Motion	Equation of wave, particle speed, particle acceleration	1	19-Jan-22	
122		Wave speed, Speed of sound, effect of pressure, temperature and humidity on speed of sound.	1	21-Jan-22	
123		Interference, Intensity 1	1	22-Jan-22	
124		Interference, Intensity 2	1	24-Jan-22	
125		Reflection of waves	1	28-Jan-22	05-Feb-22
126		Standing waves, waves on string and organ pipes	1	29-Jan-22	05 100 22
127		Standing waves, waves on string and organ pipes,,	1	31-Jan-22	
128		Sonometer wire, resonance column tube experiment, end correction, beats	1	02-Feb-22	
129		Doppler effect.	1	04-Feb-22	
130		Problem practice(PYQ)	1	05-Feb-22	