Royana Education Society's Balasaheb Desai College,Patan Department of Physics Monthly Teaching Plan-Year-2023-2024 July- 2023

Name of the Teacher-Mr.M.D.Jadhav

Dates	Unit	Sub unit	Teaching Method Aids
	B.ScI PaperII	Mechanics I	
1/07/2023	1 Gravitation (6 hours).	Newton's law of gravitation,	Lecture
2/7/2023		Motion of a particle in a central force field	Lecture
7/07/2023		motion in a plane, angular momentum is conserved	Lecture
8/07/2023		Kepler's laws (statement only),	Lecture
15/07/2023		Satellite in circular orbit and applications,	Lecture ,Chart
16/07/2023		Geosynchronous orbits, Weightlessness,	Lecture
22/07/2023		Basic idea of global positioning system (GPS)	Lecture
23/7/2023	2 Elasticity (9 hours),	Introduction (Hooke's law, Elastic moduli-Relation between elastic constants),	Lecture
30/7/2023		Poisson's Ratio-Expression for Poisson's	Lecture
	ScII Paper VI Waves & Option	: 전경 홍종 및 시간 휴. 최연 () 전 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1	
	ScII Paper VI Waves & Option		
B.S	ScII Paper VI Waves & Option 1.Superposition of Harmonic Oscillations		Lecture (6
B.S	1.Superposition of Harmonic	Linearity and superposition principle, Superposition of two collinear	(6
	1.Superposition of Harmonic	Linearity and superposition principle, Superposition of two collinear harmonic oscillations for oscillations having equal frequencies: Analytical	(6
B.S 5/07/2023 6/07/2023 3-26/07/2023	1.Superposition of Harmonic Oscillations	Linearity and superposition principle, Superposition of two collinear harmonic oscillations for oscillations having equal frequencies: Analytical method oscillations having different frequencies (Beats), Superposition of two perpendicular harmonic oscillations: for oscillations having equal	Lecture-
B.S 5/07/2023 5/07/2023 3-26/07/2023	1.Superposition of Harmonic Oscillations	Linearity and superposition principle, Superposition of two collinear harmonic oscillations for oscillations having equal frequencies: Analytical method oscillations having different frequencies (Beats), Superposition of two perpendicular harmonic oscillations: for oscillations having equal frequencies (Analytical method) Oscillations having different	Lecture-
B.S 5/07/2023 6/07/2023 3-26/07/2023	1.Superposition of Harmonic Oscillations	Linearity and superposition principle, Superposition of two collinear harmonic oscillations for oscillations having equal frequencies: Analytical method oscillations having different frequencies (Beats), Superposition of two perpendicular harmonic oscillations: for oscillations having equal frequencies (Analytical method)	Lecture Lecture

Dates	Unit	Sub unit	Teaching Method Aids
27/07/2023	2.Coupled Oscillations	normal modes and normal co- ordinates, energy of coupled oscillations,	Lecture-
30/9/2023		energy transfer in coupled oscillatory system.	Lecture
B.ScIII PHY	SICS Paper XII Digital and Analog	Circuits and instrumentation	
3-4/07/2023	1. Digital Electronics (06 hours),	Review of basic logic gates, Derived logic gates (NOR, NAND, XOR and XNOR gates)	Lecture-Char
6-7/07/2023		NAND and NOR gates as universal gates, De Morgan's theorems,	Lecture
10-11/07/2023		R-S flip flop, J-K flip- flop, Half adder,	Lecture
13-14 /07/2023		Full adder, 4-bit parallel binary adder, Counter.	
17/07/2023	2. Transistors Amplifier (04)	Review of output characteristics of transistor in common emitter mode, Single stage transistor CE amplifier	Lecture
10/07/2022		D.C. and A.C. equivalent circuits,	Lecture
18/07/2023 23/07/2023		load line analysis-d.c. load line, a.c. load line and Q point	Lecture
25/9/2023	3. Sinusoidal Oscillators (08) Br,	Oscillator: Feedback in amplifiers and its types, theory of feedback oscillator,	Lecture
26/07/2023		Barkhausen's criterion for sustained oscillations,	Lecture

PRINCIPAL

Balasaheb Desai College,
Patan, Dist. Satara