

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

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

Dates	Unit	Sub unit	Teaching Method Aids
<b>B.Sc.-I Paper II Mechanics I</b>			
4/08/2023	<b>2 Elasticity</b>	Bending of beam,	Lecture
5/08/2023		Bending moment,	Lecture
12/08/2023		Cantilever (without considering weight of cantilever),	
19/08/2023		Beam supported at both the ends (without considering weight of beam)	Lecture
23/08/2023		Torsional oscillation,	Lecture
24/08/2023		Determination of Rigidity modulus	
29/08/2023		moment of inertia - $Y$ , $\eta$ and $\sigma$ by Searle's method	Lecture
30/08/2023	<b>3. Viscosity (7 hours)</b>	Introduction, Ideal and viscous fluids, Flow of liquid through capillary tube,	Lecture
<b>B.Sc.-II</b>			
2-3/08/2023	<b>2: Coupled Oscillations (4 hr)</b>	Frequencies of coupled oscillatory systems,	Lecture
9-10/08/2023		normal modes and normal co-ordinates,	Lecture-PPT
16-23/08/2023		energy of coupled oscillations,	Lecture-
27-30/08/2023		energy transfer in coupled oscillatory system	Lecture-
31/08/2023		Wave Motion: Transverse waves on a string, travelling and standing waves on a string,	Discussion
<b>B.Sc.-III</b>			
1/08/2023	<b>3. Sinusoidal Oscillators (08)</b>	Sinusoidal oscillators-phase shift oscillator	Lecture
3/08/2023		Colpitt's oscillator,	Lecture
4/08/2023		Crystal oscillator using transistors	Lecture
7/08/2023	<b>Unit-II 1. Operational Amplifier (10)</b>	Differential amplifier and its type, Op-Amp, Block diagram of an OpAmp	Lecture
8/08/2023		Op-Amp parameters, ,	
8/08/2023		Characteristics of an ideal and practical Op-Amp (IC 741)	Lecture
11/08/2023		Concept of virtual ground,	Lecture
14-17/08/2023		Applications of Op-Amps: Inverting amplifier	Lecture
18 /08/2023		on-inverting amplifier	Lecture
21/08/2023		Adder, Subtractor,	Lecture
22 /08/2023		Differentiator,	Lecture
24-25/08/2023		Integrator.	Lecture



Dates	Unit	Sub unit	Teaching Method Aids
28-29/08/2023	Timer (04 hours)	Timer IC:Block diagram of IC555, IC 555 Pin configuration,	Lecture
31/08/2023		Applications of IC 555 as astable	Lecture

  
**PRINCIPAL**  
 Balasaheb Desai College,  
 Patan, Dist. Satara