

A.V.E.S.
DEGLOOR COLLEGE, DEGLOOR

DEPT. OF PHYSICS
ANNUAL TEACHING PLAN

NAME OF TEACHER : Dr. Bhanudas Narwade

YEAR: 2022-2023

SEM III

CLASS: B.Sc. II Year

PAPER NAME & NO.: Waves, Acoustics & Ultrasonics VI

SR. NO	TOPIC / SUB TOPIC	PLANNING		EXECUTION			
		Expe. Periods	Expected Duration		Actl. Periods	Actual Duration	
			From	To		From	To
1	UNIT-I WAVES						
	Introduction, Relation between wave velocity and partial velocity, Differential equation of Equation of vibrating string, Velocity of transverse wave, Frequency and period	10	1/8/2022	30/8/22	11	1/8/22	6/9
2	UNIT-II STATIONARY WAVES						
	Analytical treatment of stationary waves Pressure and density at nodes and antinodes Distribution of energy in stationary wave Energy not transferred	12	1/9/2022	28/9/22	10	12/9	1/10/22
3	UNIT-III FREE AND FORCED VIBRATIONS						
	Free forced vibration, Resonance Energy of oscillatory motion, Damped SHM in electrical circuit, forced vibration, Resonance and sharpness of resonance, phases of resonance and examples of forced and resonant vibration	12	29/9/22	20/10/22	11	1.10.	20.10
4	UNIT-IV ACOUSTICS AND ULTRASONICS						
	Reverberation Reverberation time, Sabin's formula, absorption coefficient determination of absorption coefficient conditions for good acoustics ULTRASONICS Piezo-electric and Magnetostriction effect Piezo-electric and Magnetostriction oscillator Detection of ultrasonic waves Acoustic grating, Kundt's tube method Applications of ultrasonics	11	14/11/22	9/12/2022	09	14.11.22	12.12.22

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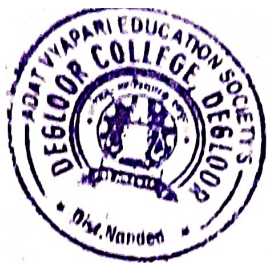
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Head

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NAME OF TEACHER : Dr. Bhanudas Narwade

YEAR:2022-2023

SEMESTER : I

CLASS:B.Sc.I Year

PAPER NAME & NO.: MECHANICS AND PROPERTIES OF MATTER I

SR. NO	TOPIC / SUB TOPIC	PLANNING		EXECUTION			
		Expe. Periods	Expected Duration		Actl. Periods	Actual Duration	
			From	To		From	To
1	UNIT-I Mechanics						
	Laws of mechanics, Newton's law of gravitation, Kepler's laws of planetary motion, Gravitational field, intensity, potential energy, conservation laws, work, power, energy, conservation of energy, conservative and nonconservative force	12	6/9/2020	1/10/2022	10	15/9/22	5/10
2	UNIT-II Surface Tension						
	Molecular forces, ST and its explanation, Pressure difference across the curved surface, Excess pressure inside drop and soap bubble, ST by Jaeger's method and Ferguson method	8	1/9/2022	26/11/22	6	5/10/22	28/11/22
3	UNIT-III Viscosity						
	Coefficient of viscosity, streamline flow, critical velocity, Reynold's number, and its significance, Bernoulli's theorem, Poiseuille's equation, Experimental determination of coefficient of viscosity by Poiseuille's method	10	28/11/22	11/12/2022	8	28/11/22	10/12/22
4	UNIT-IV : Elasticity						
	Hooke's law, elastic constants, Poisson's ratio, Twisting couple on a cylinder, Torsional pendulum, Bending of beam, Bending moment, Cantilever (Weight effective, ineffective) Depression of beam supported at bends and loaded at centre, Determination of Y by bending of beam	15	1/8/2022	5/9/2022	20	1/8/22	15/9/22

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YEAR: 2022-23
 CLASS: B.Sc. I Year

NAME OF TEACHER: Dr. Bhanudas Narwade
 SEMESTER : Annual pattern
 PAPER NAME & NO.: Practical Course (V - Paper)

SR.NO.	TOPIC / SUB TOPIC	PLANNING			EXECUTION			REMARK
		Expe. Periods	Expected Duration		Actl. Periods	Actual Duration		
			From	To		From	To	
	NAME OF EXPERIMENT							
1	Explanation : n- Maxwell needle	3	18/8/22	18/8/22	03	18/8/22	18/8/22	
2	Y by bending							
3	n by Poiseuille's method							
4	Experiments : n- Maxwell needle	9	25/8/22	8/9/2022	09	25/8/22	8/9/22	
5	Y by bending							
6	n by Poiseuille's method							
7	Explanation : n by spiral spring	3	15/9/22	15/9/22	03	15/9/22	15/9/22	
8	Y by spiral spring							
9	n by static torsion							
10	Experiments : n by spiral spring	9	22/10/22	6/10/2022	09	22/10/22	6/10/22	
11	Y by spiral spring							
12	n by static torsion							
14	Revision	6	1/12/2022	8/12/2022	-	-	-	-
15	Explanation: Field along the axis of circular coil	6	15/12/22	5/1/2023	06	15/12	5/1/23	
16	PN Junction diode							
17	Zeener diode							
18	Experiments: Field along the axis of circular coil	9	15/12/22	5/2/2023	03	15/12	15/2	
19	PN Junction diode							
20	Zeener diode							
21	Revision	6	12/1/2023	19/2/23				

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YEAR: 2022-23
CLASS: B.Sc. II Year

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: Annual pattern
Practical Course (X Paper)

SR.NO.	TOPIC / SUB TOPIC	PLANNING			EXECUTION			REMARK
		Expe. Periods	Expected Duration		Actl. Periods	Actual Duration		
			From	To		From	To	
	NAME OF EXPERIMENT							
1	g by Katers pendulum	15	26/8/2022	30/9/2022	15	24/8/22	30/9/22	
2	M.I. of flywheel							
3	Y-by Cantilever							
4	n-by Torsional pendulum	15	7/10/2022	25/11/2022	15	7/10/22	25/11/22	
5	Y & n by Searle's method							
6	S.T. by Fergusson method							
7	Revision	9	2/12/2022	16/12/2022	9	2/11/22	16/12/22	
8	Frequency of A.C. by sonometer							
9	Calibration of spectrometer							
10	RI BY SPECTROMETER	18	23/12/2022	20/1/2023	18	23/12	20/1/23	
11	wavelength by grating							
12	Helhmotz resonator							
13	Conductivity by Sears method	6	27/1/2023	10/2/2023	3	27/1/23	27/1/23	
14	Revision	6	17/2/2023	3/3/2023	3	10/2/23	10/2/23	

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DEPT. OF PHYSICS
ANNUAL TEACHING PLAN

YEAR: 2022-23
CLASS: B.Sc. III Year

NAME OF TEACHER: Dr. Bhanudas Narwade
SEMESTER : Annual pattern
PAPER NAME & NO.: Practical Course (XVI Paper) Batch: A

SR.NO.	TOPIC / SUB TOPIC Name of experiment	PLANNING		EXECUTION		REMARK		
		Expe. Periods	Expected Duration		Actl. Periods		Actual Duration	
			From	To			From	To
1	Viscosity by oscillating method	12	22/8/2022	12/9/2022	12	22/8/22	12/9/22	
2	Rydberg's constant							
3	Hartmann dispersion formula							
4	Conductivity by Forbe's method	12	19/9/2022	10/10/2022	15	19/9/22	21/11/22	
5	h by LED							
6	Cauchy's constant							
7	Y by Koinngs method	12	21/11/2022	12/12/2022	12	28/11/22	19/12/22	
8	Conductivity by Lee's method							
9	R.P. of prism							
10	Spectral characteristics of solar cell	12	19/12/2022	16/1/2023	12	26/12/22	23/1/23	
11	Velocity of light in denser medium							
12	R.P. of grating							
13	Revision	12	23/1/2023	24/2/2023	06	28/1/23	2/2/23	

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YEAR: 2022-23

CLASS: B.Sc. III Year

NAME OF TEACHER: Dr. Bhanudas Narwade
SEMESTER : Annual pattern
PAPER NAME & NO.: Practical Course (XVI Paper) Batch: B

SR.NO.	TOPIC / SUB TOPIC Name of experiment	PLANNING			EXECUTION			REMARK
		Expe. Periods	Expected Duration		Actl. Periods	Actual Duration		
			From	To		From	To	
1	Viscosity by oscillating method	12	23/8/2022	13/9/2022	12	23/8/22	13/9/22	
2	Rydberg's constant							
3	Hartmann dispersion formula							
4	Conductivity by Forbe's method	12	20/9/2022	11/10/2022	12	20/9/22	11/10/22	
5	h by LED							
6	Cauchy's constant							
7	Y by Koinngs method	12	22/11/2022	13/12/2022	12	22/11/22	13/12/22	
8	Conductivity by Lee's method							
9	R.P. of prism							
10	Spectral characteristics of solar cell	12	20/12/2022	17/1/2023	12	20/12/22	17/1/23	
11	Velocity of light in denser medium							
12	R.P. of grating							
13	Revision	12	24/1/2023	24/2/2023	06	24/1/23	20/2/23	

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