DEPT. OF PHYSICS ANNUAL TEACHING PLAN

YEAR:2017-18 CLASS:B.Sc.I Year

NAME OF TEACHER:

Dr. Bhanudas Narwade

SEMESTING - I

PAPER NAME & NO.:

Mechanics and properties of matter

		PLANNING			EXECUTION			REMARK
SR.NO.	TOPIC / SUB TOPIC	Expe. Periods Expected Duration		Actl. Periods	Actual Duration			
SK.NO.	101167 303 10116		From	То		From	То	*
		12 M	To be an over the second	119 E				
1	UNIT-I MECHANICS	12 5/7						
	Introduction, Laws of mechanics, frame of			1/8/2017				
20	reference, centre of mass, conservation of		5/7/2017					
	momentum, work energy theorem				13	6/7/2017	5/8/2017	
	Angular momentum, torque Newtons laws of							
	gravitation, Kepler's laws, Deduction of Keplers							
	laws from Newton laws,gra. Potential							
	and intensity inside and outside the sphere							
2	UNIT-II SURFACE TENSION							
	Defination, curvature pressure and s.t.	1						
	Difference of pressure, Exp. For excess pressure	10	3/8/2017	22-8-2017	09	12.4.15	5.10.17	
	S.T. by Jaeger's Method				/			
	S.T. byFerguson Method					14.	المالية ومعالى	

the same of the sa	THE RESERVE OF THE PARTIES OF THE PA	PLANNING			Jan J	REMARK		
SR.NO.	TOPIC/SUB TOPIC	Expe. Periods	Expected	Duration	Actl. Periods	Actual	Duration	
			From	То		From	То	The state of the s
3	UNIT-III viscosity	1. 2.2	Janes Com					
	Coefficient of viscosity, Streamline flow			. i.e.			15-9-17	
	Critical velocity, Bernoulli's Principle	STATE OF STATE OF		12/9/2017	F9:117 08			
	Poiseuille's equation	10	23/8/2017			5.9.12		
3,425.2	Poiseuille's method							
4	UNIT-IV ELASTICITY							
pt.	Types of stress and strain	r and destination			,			
Esta Responding	Types of Elasticity							th
	Twisting couple							4thuni Taught Aster
	Torsional Pendulum							Taugh
	Bending of Beam	12	13/9/2017	4/10/2017	13	10.8.201	66-10-10	After
	Bending moment						790	Ist uni)
	Cantilever							un,
ř.	Depression of Beam				1			
	Y by bending of beams							
		<u> </u>						

Name and Sign. Of Teacher

Dr. B.S. Namade

H.O.D.

Dept. of Physics

Principal

Degloor College

A V Education Society's Degloor

DEPT. OF PHYSICS
ANNUAL TEACHING PLAN

YEAR:2017-18

CLASS:B.Sc.II Year

NAME OF TEACHER:

Dr. Bhanudas Narwade

SEMESTIII

PAPER NAME & NO.:

Waves, Acoustics & Ultrasonics

100	TOPIC / SUB TOPIC	PLANNING			E	REMARK		
SR.NO.		Expe. Periods Expected Duration		d Duration	Actl. Periods	Actual Duration		1
- NEGLES			From	To ·		From	То	
	The state of the s	and the second					and the start	
1	UNIT-I WAVES	Contract of the contract of th	3 1 64					
	Introduction, Relation between wave velocity							
	and partical velocity, Differntial equation of	10		11 5/4				
	wave motion, Energy of progressive wave		5/7/2017	1/8/2017	17 9			
	Equation of vibrating string, Velocity					11/7/2017	1/8/2017	
	of transvrse wave, Frequency and period							
	Numerical problems							
2	UNIT-II STATIONARY WAVES	p. 3			TOTALLS S			
	Analytical treatment of stationary waves						graphic distriction	
	Pressure and density at nodes and antinodes	1						
	Distribution of energy in stationary wave	10	2/8/2017	22-8-2017		2.8.17 27.8	22.8 1	1
	Energy not transferred							

	PIANORU		PLANNING		: E	XECUTION	فيعض وخيامته	REMARK
SR.NO.	TOPIC / SUB TOPIC	Expe. Periods Expected Duration		Actl. Periods	Actual Duration			
		Charles , Page 1	From	То		From	То	e de Major de de
. 3	UNIT-III FREE AND FORCED VIBRATIONS	the same	e de la compania del compania del compania de la compania del compania del compania de la compania del compania					
The state of the s	Free forced vobrationd, Resonance	1889 V	2 30 30 30 30					
r Salarei Eriala	Energy of oscillatory motion, Damped SHM	11	22/0/2017	16/0/2017	29	23.8.17	h .a	
and the same of th	Aperiodic, critically damped motion] ''	23/8/2017	16/9/2017	49		11 1.	
gw. N <mark></mark>	Effect of damping, Sharpness of resonance]					-	
4	UNIT-IV ACOUSTICS AND ULTRASONICS							
	ACOUSTICS							
	Reverbration Reverbration time,				return o			
	Sabin's formula, absorption coefficient		Della III	e e este a .				
	determination of absorbtion coefficient							
4	conditions for good acoustics	1	47/0/004			5-9	22-9	
	ULTRASONICS	10	17/9/2016	4/10/2017	57,8	. 1	,	
	Piezo-electric and Magnetostriction effect	A PLF						
	Piezo-electric and Magnetostriction oscillator							
Y	Detection of ultrasonic waves	1.						
	Acoustic grating, Kunds tube method		5 - + 1 2		n 4			
15	Applications of ultrasonics							

Name and Sign. Of Teacher Dr. B-S Namate

H.O.D.

Dept. of Physics

Principal

Degloor College

A V Education Society's

Degloor College Degloor

DEPT. OF PHYSICS ANNUAL TEACHING PLAN

YEAR:2017-18

CLASS:B.Sc.III Year

NAME OF TEACHER:

Dr. Bhanudas Narwade

SEMESTER

V

PAPER NAME & NO.:

Quantum Mechanics

	TOPIC / SUB TOPIC		PLANNING		E	REMARK		
SR.NO.		Expe. Periods	Expected Duration		Actl. Periods		Actual Duration	
			From	То		From	To	
1	UNIT-I PARTICAL PROPERTIES OF WAVES	· ·	- =					
	Introduction, Photoelectric effect							
	Comton effect, de-Broglies waves,				2.500			
e] H	Wave function, de-Broglies wave velocity,	4.5	4/7/2017	28/7/2017	10	13/7/2017	1/8/2017	
	Wave and Group velocities, G.P. Thomson	12						
	experiment, Uncertainty principal	,			į.			en e
	Applications, Wave particle duality							
	Numerical Problems				-			
2	UNIT-II SCHRODINGER'S EQUATION		,					
	Introduction, Schrodinger's equation		7 -					
- 21.	Time dependent form,probability current		==		9	0>0 =		
	Expectation values, Operators, Schrodinger's	10	29/7/2017	26/8/2017		272.8	22-8	
	Equation -steady state form,						102	
	Eigen values and function problems	· · · · · · · · · · · · · · · · · · ·	e to the least of			,	- Car	

	and communication of Leanuiness	Commence Library	PLANNING	over majoritanelli il		EXECUTION	la comental vent i a servici del del	REMARK
SR.NO.	TOPIC / SUB TOPIC	Expe. Periods	Expecte	d Duration	Actl. Periods	Actua	Duration	
	·	THE STREET	From	То	1	From	То	1
3	UNIT-III APPLICATION OF QUANTUM MECHANICS	20474						
42.5	Introduction, partical in a box		STATE OF THE PARTY					
13.33 E	Energy quantization, wave function,	9 27	27/0/2017	14/0/2017	8	23.8	5 .9	
	Momentum quantization, Harmonic oscillator		27/8/2017	14/9/2017	0			
	Energy level,Particle in 3-D box							
4	UNIT-IV QUANTUM THEORY OF H ATOM	11-11-11				4 Care		
	Schrodinger's equation for the Hydrogen atom		200					
	in spherical polar co-ordinates	1 1		-				
	separation of variables,	and the second		- 1 7 7 7 7				
	Quantum Numbers-				*			
e we are	Total quantum numbers,	1 4	45 (0 (0047	2/42/224	10	6.9	2.10.17	
	Orbital quantum numbers, magnetic quantum	11	15/9/2017	3/10/2017		Particle Desire		
	numbers, spin quantum numbers		e disa					
1,9 3,4 4			W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	133				
	The second secon	a manda an again.						
					-		B	

Name and Sign. Of Teacher

Or - S- S- Name Ju

H.O.D.

Dept. of Physics

Principal

Degloor College

A V Education Society's

Degloor College Degloor

DEPT. OF PHYSICS ANNUAL TEACHING PLAN

YEAR:2017-18 CLASS:B.Sc.II Year

NAME OF TEACHER:

Dr. Bhanudas Narwade

SEMESTER

Annual pattern

Practical Course (X Paper)

APER NAN	ME & NO.: Practical Course (X Paper)	1	PLANNING		E	XECUTION		REMARK
	TODIC / SUB TODIC	Expe. Periods		Duration	Actl. Periods	Actual Duration		
SR.NO.	TOPIC / SUB TOPIC	Lxpe. r crious	From	То	Surfaced ()	From	То	
<u> </u>	NAME OF EXPERIMENT							
1	Explaination : M.I.of flywheel	3	19/7/2017	19/7/2017	3	19/7/2017	19/7/2017	
2	g by Katers Pendulum			4.45		Line je		
3	Y-by Cantilever							
4	Experiments: of M.I.of flywheel			9/8/2017	9	26/7/2017	10//2017	
5	g by Katers Pendulum	9	26/7/2017					
6	Y- by Cantilever							_, 1
7	Explaination: n- by Torsional pendulum				3	16-8	16.8	Maria II
8	Y &n by Searle's method	3	16/8/2017	16/8/2017	/	10.0	,	
9	S.T. by Fergusson method							-
10	Experiments: n- by Torsional pendulum			6/9/2017	7 9	23.8	6.9	
11	Y &n by Searle's method	9	23/8/2017					
12	S.T. by Fergusson method				(10-15-15-15-15-15-15-15-15-15-15-15-15-15-	
13	Explaination: Helmholtz Resonator	3	13/9/2017	13/9/2017	3	13.9	13.9	
14	Frequency of A.C. by sonometer			2			and the second	-
15	Experiments: Helmholtz Resonator	6	20/9/2017	27/9/2017	6	20.9	20-9	
16	Frequency of A.C. by sonometer Revision	3	5/10/2017	5/10/2017				
17	Revision	3	3/10/2017	3/10/2017			S SCHEROLD	_

	THE PARTICULAR IN COMMENTS OF THE PA	1 1111111	MALEN PLANNING , SINGE -		E	XECUTION	REMARK		
Carlo and Carlo	TOPIC / SUB TOPIC	Expe. Periods	Expected Duration		Actl. Periods	Actual Duration			
SR.NO.			From	То		From	То		
	NAME OF EXPERIMENT								
1	Explaination : Calibration of spectrometer	3	15/11/2017	15/11/2017	2	15.11	15-11		
2	Wavelength Newtons Ring		15, 12, 202.	20,,			12 //		
3	i-d curve by spectrometer		01 el m.		7,00	1 1 3 3 4 19- 19			
4	Experiments: Calibration of spectrometer	9	22/11/2017	6/12/2017	9	21:H 5·12·17			
5	Wavelength Newtons Ring						30.12.1		
6	i-d curve by spectrometer								
7	Explaination : R.P.Telescope				3	F118	6.110		
8	Diffraction grating normal incidence	3	13/12/2017	13/12/2017	3	D 1/8	(B))' / (
9	Characteristics of solar cell	W. Carlotte	an annual of	a de					
10	Experiments:R.P.Telescope			·	9	6.1.18	9611		
11	Diffraction grating normal incidence	9	9	20/12/2017	10/1/2018		0.1.1.	20118	
12	Characteristics of solar cell								
13	Explaination : R.P. of Grating	3	17/1/2018	17/1/2018		8.2.	8.2	-	
14	Wavelength of LASER by Grating	3	17/1/2010	17/1/2010	3				
15	Experiments:R.P. of Grating	6	1/2/2018	8/2/2018	6	12-2	2.2		
16	Wavelength of LASER by Grating		1,2,2010	0/2/2018					
17	Revision	6	15/2/2018	22/2/2018					

Name and Sign. Of Teacher

20 - 3 - S Namuale

H.O.D.

Dept. of Physics

B82_

Principal

Principal
Degloor College

Principal

AV Education Society's
Degloor College Degloor