TEACHING PLAN

FUNDAMENTAL OF PHYSICS (101-T)

SEM :-I

NUTAN ARTS COLLEGE RAJAPUR

TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -------

Name of the Teacher:- DAROLE.A.S Class :-F.Y.B.Sc

Subject & Course :- Fundamental of Physics

Date:- 08 /07 /2024 To Date:- 30/07/ 2024

Sr.Week	Topics Planned	Topics Covered	Teaching tool/methods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week	**Module - 01 Rotational Dynamics 10 H** 1.1 Torque, Angular Velocity and Angular Acceleration. (Revision) 1.2 Principle of Conservation of Angular Momentum. .	**Module - 01 Rotational Dynamics 10 H** 1.1 Torque, Angular Velocity and Angular Acceleration. (Revision)	BBCL	02	01	NA

2nd Week	1.3 Centre of Mass in uniformly distributed object. (Revision) 1.4 Statement of parallel axis and perpendicular axis theorem	1.3 Centre of Mass in uniformly distributed object. (Revision 1.4 Statement of parallel axis	**BBCL**	**02**	**02**	**NA**
3rd Week	1.5 Moment of Inertia and Radius of gyration. 1.6 Calculation of moment of inertia for solid cylindrical, and spherical.	1.5 Moment of Inertia and Radius of gyration. 1.6 Calculation of moment of inertia for solid cylindrical	**BBCL**	**02**	**02**	**NA**
4th Week	1.7 Kinetic Energy of Rotation 1.8 Rolling Motion on inclined plane 1.9 Moment of Inertia of a Flywheel	1.7 Kinetic Energy of Rotation 1.8 Rolling Motion on inclined plane	**BBCL**	**02**	**02**	**NA**
5th Week	Numerical Problem	1.9 Moment of Inertia of a Flywheel Numerical Problem	**BBCL**	**02**	**02**	**NA**

Total No.of Lectures Planned during the month =10
Total No of lecturer Conducted during the month =09
C.L= 9/07/2024

Plan checked By HOD **Signature of the Teacher**

NUTAN ARTS COLLEGE RAJAPUR

TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -------

Name of the Teacher:- DAROLE.A.S Class :-F.Y.B.Sc

Subject & Course :- Fundamental of Physics

Date:- 01 /08 /2024 To Date:- 31/08/ 2024

Sr.Week	Topics Planned	Topics Covered	Teaching tool/methods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week	**Module - 02 Fluid Mechanics 06 H** **i) Fluid Statics** 2.1 Definition of a Fluid. 2.2 Pressure, Absolute Pressure and Gauge Pressure. (Revision) 2.3 Variation of Pressure with Depth.	**i) Fluid Statics** 2.1 Definition of a Fluid. 2.2 Pressure, Absolute Pressure and Gauge Pressure. (Revision)	BBCL	02	02	NA

2nd Week	2.4 Pascal's Laws (Statement) 2.5 Buoyancy and Archimedes Principle. (Statement) Numerical Problem 2.6 Equation of Continuity. **ii) Fluid Dynamics**	2.4 Pascal's Laws (Statement) 2.5 Buoyancy and Archimedes Principle. (Statement) **ii) Fluid Dynamics**	**BBCL**	**02**	**02**	**NA**
3rd Week	2.7 Bernoulli's Theorem.(Statement) 2.8 Application Based on Bernoulli's Equation: Torricelli's Theorem and Venturimeter.(only theory)	2.6 Equation of Continuity 2.7 Bernoulli's Theorem.(Statement	**BBCL**	**02**	**02**	**NA**
4th Week	2.9 Viscosity, Viscous force and Effect of Temperature. (Revision) 2.10 Stokes' Law and Terminal Velocity.	2.9 Viscosity, Viscous force and Effect of Temperature	**BBCL**	**02**	**02**	**NA**
5th Week	2.11 Surface Tension, Surface Energy and angle of contact.	2.11 Surface Tension, Surface Energy and angle of contact. (Revision)	**BBCL**	**02**	**02**	**NA**

	(Revision) 2.12 Excess Pressure Inside liquid drop and Soap Bubble. 2.13 Determination of Surface Tension by Jaeger's Method. Numerical Problem	2.12 Excess Pressure Inside liquid drop and Soap Bubble				

Total No.of Lectures Planned during the month =10
Total No of lecturer Conducted during the month =10

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TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -------

Name of the Teacher:- DAROLE.A.S Class :-F.Y.B.Sc

Subject & Course :- Fundamental of Physics

Date:- 01 /09 /2024 To Date:- 30/09/ 2024

Sr.Week	Topics Planned	Topics Covered	Teaching tool/methods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week	**Module - 03 Atomic Spectra 08H** 3.1 Inadequacy of classical physics, 3.2 Brief Review of	3.1 Inadequacy of classical physics, 3.2 Brief Review of Black body Radiation	**BBCL**	**02**	**02**	**NA**

	Black body Radiation, 3.3 Photoelectric effect, (Statement)					
2nd Week	3.4 Compton Effect, (Statement) 3.5 Dual nature of radiation wave nature of particles, 3.6 Atomic spectra,	3.4 Compton Effect, (Statement) 3.5 Dual nature of radiation wave nature of particles,	**BBCL**	**02**	**02**	**NA**
3rd Week	3.7 Line spectra of hydrogen atom, 3.8 Ritz Rydberg combination principle, (only principle) 3.9 Alpha Particle Scattering, (Review)	3.7 Line spectra of hydrogen atom, 3.8 Ritz Rydberg combination principle, (only principle)	**BBCL**	**02**	**01**	**NA**

4th Week	3.10 Rutherford Scattering Formula, (Revision) 3.11 Rutherford Model of atom and its limitations. Numerical Problem	3.10 Rutherford Scattering Formula, (Revision) 3.11 Rutherford Model of atom and its limitations	**BBCL**	**02**	**01**	**NA**
5th Week	**Module - 04 Atomic Models 07H** 4.1 Bohr's Model of Hydrogen atom, 4.2 Explanation of atomic spectra, 4.3 Correction for finite mass of the nucleus, (Revision)	**Module - 04 Atomic Models 07H** 4.1 Bohr's Model of Hydrogen atom, 4.2 Explanation of atomic spectra	**BBCL**	**02**	**02**	**NA**

Total No.of Lectures Planned during the month =10
Total No of lecturer Conducted during the month= 08

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TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -------

Name of the Teacher:- DAROLE.A.S Class :-F.Y.B.Sc

Subject & Course :- Fundamental of Physics
Date:- 01 /10 /2024 To Date:- 31/10/ 2024

Sr.Week	Topics Planned	Topics Covered	Teaching tool/methods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week	4.4 Bohr correspondence principle, 4.5 Limitations of Bohr model,	4.4 Bohr correspondence principle, 4.5 Limitations of Bohr model,	BBCL	02	02	NA
2nd Week	4.6 Discrete energy exchange by atom, 4.7 Frank Hertz Experiment,	4.6 Discrete energy exchange by atom, 4.7 Frank Hertz Experiment,	BBCL	02	02	NA
3rd Week	4.8 Sommerfeld's modification of Bohr's Theory (Review) Numerical Problem	4.8 Sommerfeld's modification of Bohr's Theory (Review)	BBCL	02	02	NA

4th Week	DIWALI HOLIDAY					
5th Week	DIWALI HOILDAY					

Total No.of Lectures Planned during the month =06
Total No of lecturer Conducted during the month =06

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TAL - SANGAMNER DIST-A.NAGAR

Teaching plan for the Year -------

Name of the Teacher:- DAROLE.A.S Class :-.....

Subject & Course Optics

Date:- / /20 To Date:- / / 20

Sr.Week	Topics Planned	Topics Covered	Teaching tool/methods used	No.of Lectures planned	No.of Lectures conducted	Remarks (level /extra lecture etc.
1st Week						
2nd Week						

3rd Week						
4th Week						
5th Week						

Total No.of Lectures Planned during the month .....Total No of lecturer Conducted during the month.....

Plan checked By HOD **Signature of the Teacher**