

GOVT. POLYTECHNIC SUNDERNAGAR
LESSON PLAN (Theory)

Name of the Teacher : **Monika Thakur**
Session : Aug.-Dec. **2023-2024**

Subject : **Applied Physics-I**
Class : **ARCHITECTURAL Engg**
Semester 1st

Week	Name of Chapter	Contents to be Taught	Remarks
1	Unit-1 Units of measurement Physical quantities	Types of physical quantities,	
2		Fundamental and derived Physical quantities with their units	
3		Dimensional formula and dimensional equations. Principal of homogeneity. Uses of dimensional analysis.	
4	Unit-2 Force and motion	Definition of force, Resolution of forces into two component form.	
5		Linear momentum, Impulse, Conservation of linear momentum.	
6		Four forces in nature (Gravitational, Electromagnetic, weak and strong forces)	
7	Unit 3: Temperature and its measurement	Definition of heat and temperature	
8		Different scale of temperature, conversion of temperature in different scale (simple problems).	
9		Criteria for selection of a thermometer,	
10		Thermal expansion of solids, Linear, superficial and cubical expansions.	
11	Unit 4: Acoustics of buildings	Conditions for pleasant effect of sound in big hall or auditorium, Echo,	
12		Reverberation, reverberation times and simple problems on reverberation time.	
13	Unit 5: Work, Power, Energy	Definition of work, power, energy and their units.	
14		Work energy theorem and simple numerical.	

HOD Applied Sciences

Monika
Signature of Teacher