

# Govt. Polytechnic Hamirpur (H.P.)

## Practical Planning & Coverage

Branch : Mechanical Engg.  
 Subject : Applied Physics-I  
 Teacher: Amit Pathak

Semester : First  
 Session : August 2024 - Dec. 2024  
 Laboratory: Applied Physics-I Lab

Pract. No.	Description of Practical	Reference for Procedure/ Write up	Likely Dates	Actual Dates	Signature
1	To measure length, radius of a given cylinder, a test tube and a beaker using a Vernier caliper and find volume of each object.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	3 <sup>rd</sup> and 4 <sup>th</sup> week of August		
2	To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	5 <sup>th</sup> week of August and 1 <sup>st</sup> week of September		
3	To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	2 <sup>nd</sup> and 3 <sup>rd</sup> week of September		
4	To verify triangle and parallelogram law of forces.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	4 <sup>th</sup> week of September and 6 <sup>th</sup> week of October		
5	To find the co-efficient of friction between wood and glass using a horizontal board.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	2 <sup>nd</sup> and 3 <sup>rd</sup> week of October		
6	To determine force constant of a spring using Hook's Law.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	4 <sup>th</sup> week of October		
7	To verify law of conservation of mechanical energy (PE to KE).	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	5 <sup>th</sup> week of October and 1 <sup>st</sup> week of November		
8	To find the moment of inertia of a flywheel.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	2 <sup>nd</sup> week of November		
9	To find the coefficient of linear expansion of the material of a rod.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	3 <sup>rd</sup> week of November		
10	To determine atmospheric pressure at a place using Fortin's barometer	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	4 <sup>th</sup> week of November		
11	To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into different scales.	Applied Physics-I lab manual-2022 scheme/ Applied Physics-By RA BANWAT	5 <sup>th</sup> week of November		

Signature of Teacher

( Amit Pathak )

Signature of H.O.D.