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Code	Subject Title	Cr. Hrs	Semester
PHY-112	Physics Lab-I (Mechanics & Optics)	1	I
Year	Discipline		
1	Chemistry-II, Mathematics-I, Statistics-I		

1. Surface tension by capillary rise.
2. Study of compound pendulum and estimate of value of 'g'
3. Elastic constants by spiral spring
4. Modulus of rigidity by dynamic method and static method of Maxwell's Needle.
5. Spring Constant by static and dynamic method.
6. Modulus of rigidity by dynamic method.

**Recommended Books:**

1. Physics Vol. I & II (extended) by Resnick, Halliday and Karne, 4<sup>th</sup> and Sons Inc, New York.
  2. Fundamentals of Physics by Halliday Resnick and Krane, John Wiley and Sons Inc, New York.
  3. University Physics 8<sup>th</sup> Edition by Sears, Zemansky and Young, Addison – Wesley, Reading (MA), USA.
  4. Physics by Alonso and Finn; Addison-Wesley, Reading (MA) USA.
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