



Department of Science and Humanities

Vision: “To excel in the field of Technology by creating technocrats with value based education.”

Mission: ● To provide technical expertise to fulfil the needs of industry..

- To impact ethical values and professional responsibilities.
- To achieve excellence in academics.

Subject Name: APPLIED SCIENCE PHYSICS

Date :- 09/02/2023

Assignment No :-1

Course Outcome: Select relevant material in industry by analysing its physical properties.

Topic Name :-Properties of matter and Non Destructive Testing

1. Define i] Elasticity ii] Stress iii] Restoring force iv] Deforming force
2. State Hooke's Law of elasticity
3. Explain behaviour of wire under continuously increasing load
4. State Stoke's law of viscosity and state formula for terminal velocity
5. Calculate the pressure of water at a depth of 20 m inside the water

Date of Submission :-1/3/2023

Assign By :- Mangal Nagashenkre



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Kharghar, Navi Mumbai - 410 210.

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Date: 09/02/2023

Assignment No: 2

Course Outcome: Apply laws of motion in various applications.

Topic Name: Types of Motion

1. Define i] Rectilinear motion ii] Acceleration ii] Angular Velocity iv] Projectile
2. State Newton's laws of motion.
3. A Car of mass 1500kg is moving with a speed of 90 km/hr. find the Momentum of a Car.
4. Define Power. State its S.I. unit.
5. Define time of Flight and state its formula with symbol meaning.

Date of Submission :- 29/3/2023

Assign By :- Mangal Nagashenkre



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Date: 09/02/2023

Assignment No: 3

Course Outcome: Use LASERs, X-Rays and photo electric sensors.

Topic Name: Photoelectricity, X- Ray and Lasers

1. Explain Planck's hypothesis
2. State applications of LDR [Photoresistor]
3. The energy of a photoelectron is 3.3 ev. what is its frequency
4. State four important properties of X-Rays
5. Give full form of laser.

Date of Submission: 12/04/2023

Assign By: Mangal Nagashenkre