BASIC MECHANICAL ENGINEERING (FORMULA)

INTRODUCTION

- $F = ma$ (Newton)
- $P = F/a$ (N/m^2) or (Pa) => $1 Pa = 1 N/m^2$ and $1 bar = 10^5 Pa$
- $P_{atm} = 1.01325$ bar
- $P = \rho gh$
- Absolute pressure = Atmospheric Pressure ± Gauge Pressure
- Power $P = W/t$ (J/s) or (Watt)
- Potential Energy $P.E. = wh$ (Nm)
  $= mgh$ where, $g = 9.81$ m/s^2
- Kinetic Energy $K.E. = (mv^2)/2$ (Nm)

- Specific Heat Capacity
  - $Q = mC\Delta T$ or
  - $Q = W + U$ (kJ/kg K)
  - $C = Q/(m\ \Delta T)$
- Enthalpy $H = U + pV$
- Specific Enthalpy $h = U + pV$
- Friction Power $F.P. = I.P. - B.P.$
- Mechanical Efficiency (η_m) = B.P. / I.P.
- Thermal Efficiency (η_{th})
  - η_{th} = (output of engine)/ (Heat input from the fuel)

Basic Formulas For Mechanical Engineering

SJ Ball

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