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## HYDRAULIC MACHINE

**By-Praveen Sir** 

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O HYDRAULIC MACHINE 0 0  $\bigcirc$ 0 Impact. of jets ( Dynamic action of fluid) 1) 0 0 Publine - Pelton ද) 0 ESE obj - 6 Qobj 0 0 - Francis - Kaplan ESE CONV. - 20-40 0 GATE - 2-4 marks 0 0 Pumps - centre fugal. Reciprocating. 3) 0 0 0 0 0 0 0 O.  $\mathbf{O}$ С С Turbine - It converts pydraulic poroes or water poroes. ·C: into mechanical power. C: È C C C C ( . . C

0 Minister Mart 0 0-Introduction -0 0 0 It converts hydraulie power or water Tubine: ৵ 0 power into mechanical power. 0 0 Ο 0 0 0 Ο Penstak. 0 Reservoir 0 0 С С Pump - It converts Mechanical Power to Hydraulic race ( ≁ C 1 C -> delivery pipe C casing suction pipe Sump level.

0 force equal to rate of change of Momentum. 0 0-0  $= m_{12} - m_{1}$ 0 F(external | Vanes | Blades) 0 0 0 Froater jet = - France. О 0 О  $-(\dot{m}v_2-\dot{m}v_1)$ Ο О  $F_{\text{ret}} = mv_1 - mv_2$ С С C C C Energy CONCEPT C (Power or Interkdonelsec) Ç. Energy Sec Energy (solid body) ( POLOEY) mg (Head) ( : T <sup>(</sup>  $\frac{\int dh u^2}{2} = \frac{V^2}{2}$  $\lim_{n \to \infty} v^2$ 1'mv2 (KE) C C phg Ċ C mgh mgh (PE) prof. 11 Fix (WD) F·V F.12 mg  $V \rightarrow velocity of$ body jisme force lagega