

"Bringing Excellence to Students"



Handwritten Notes on Circular Motion



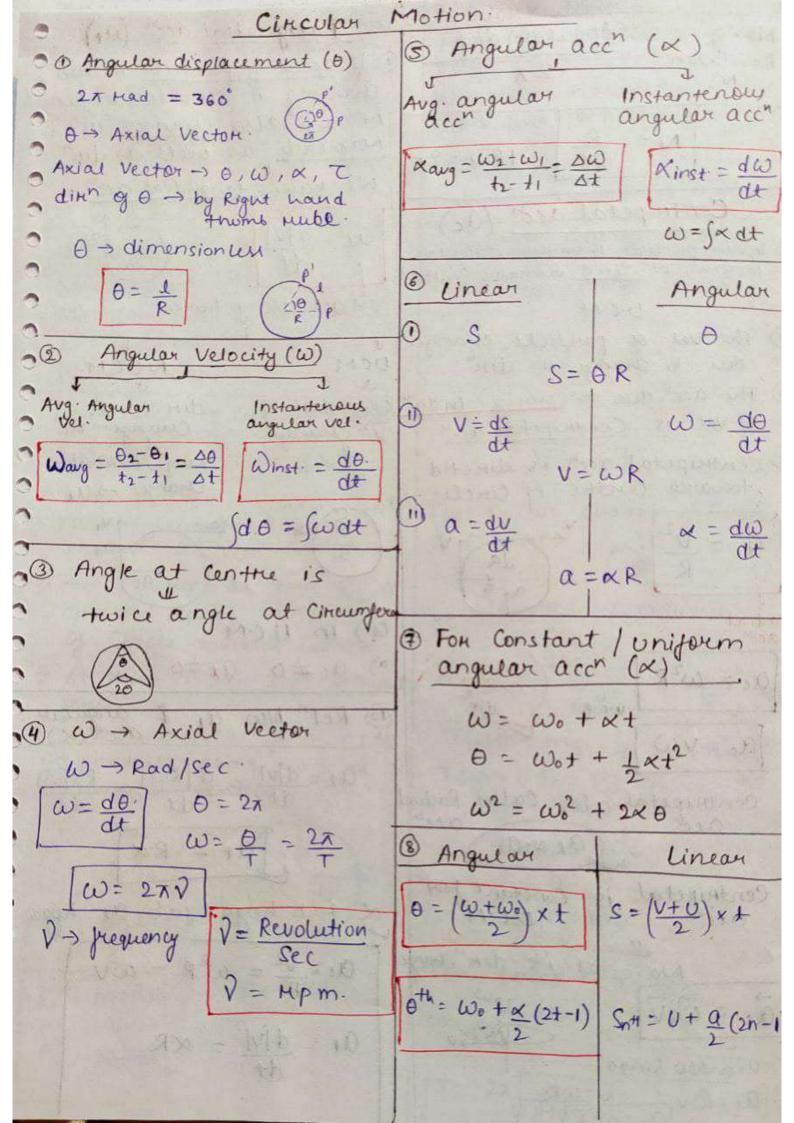












Tangential acc (at) Angular disp 1) If speed of particle is also No · of Revolution changing in cincular motion 27 (N) i.e vel. also <u>Changes</u> in Magnitude as well as dix N= D | | Rev = 2x We have tangential acc $0 + \frac{d|v|}{dt}$ Centripetal acch (ac) 1) When particle is uniform Circular motion, it speed vienains Constant ls act along tangent 1 The Vel of particle changes DCM NUCM du to change in dith. din of V (11) The ace" due to change indix" only din of chappe - ac v Changy of vel is <u>Centripetal acc</u> magnitude also (1) Centripetal acc" is directed ac Changes - at towards centre of cincle. $Q_c = \frac{V^2}{R}$ $Q_c = \frac{V^2}{R}$ $Q_c = \frac{V^2}{R}$ on) In UCM Radial $\alpha_c = \omega^2 R$ a) ac \$ 0 at = 0 @ Rel n b/w at & angular accur(x) ac = vw $at = \frac{d|v|}{dt} = \frac{d[R\omega]}{dt} = \frac{Rd[\omega)}{dt}$ Centripetal also Called Radial acchange Qt = RXCentripetal is Constant for occident & tab hoga. Jab at hoga No. as its dim changes ac= VZ = w2R = wv $\vec{a}_c = \vec{\omega}_x \vec{v}$ $at = \frac{d|v|}{dt} = xR$ ac = wu singo ac=wv v=wR ac=w2R

