# DESIGN OF ELECTRICAL MACHINES

#### UINIT-I:

PROBLEM 1.2 (P-1.25) Calculate the specific electric and magnetic loading of 100HP, 3000V.3φ,50Hz,8 pole, star connected flame proof induction motor having stator corelength 0.5m and stator bore 0.66m.Turns/phase=286.Assume full load efficiency=0.938 and power [DEC-2013{8 mark}] factor =0.86.

wen: P=100 x 0.746 = 74.6 kw, f= 90 Hz, b=8, 0=0.66m, L=0.5m, V\_= 8000V Vph = VL = 1732.00V η= 0.938, Tph = 286 cosφ = 0.86 ac? Bav? Soln:

step :  $\frac{1}{1}$  =  $\frac{1}{1}$ 

steps: Find ac-Tenghan

spec ac electric Loaditha = Tx. x -> 6 Tph

= 14730.57 amplin

Seep 4: 4th d Bav

Spec. Hagneste

Leading  $Bav = \frac{b\phi}{\pi DL}$   $-0.028 \omega b$ 

PROBLEM 1.1(P-1.23) A 400KW,500V ,450 rpm,6 pole DC generator is built with an armature diameter of 0.87m and core length is 0.32m. The lap wound has 660 conductors. Calculate the specific electric loading and magnetic loading.

P=400kW = 400 v1000 watts , v=500v , N = 4 50 5pm , b=6 , D=0.87m , L= 0.82m , X=660 conductors , a=p=6

steps: Find Ix

Cusptont pawing through  $T_{z} = \frac{T_{a}}{a}$ each conducteor  $T_{a} = \frac{P_{a}}{V} = 800 \text{ A}$   $T_{z} = 133.83 \text{ A}$ 

steps: Find ac: spec electric boading ac =  $\frac{T_{Z,Z}}{H\cdot D}$ 

steps:  $700d\phi$ :  $F_b = \frac{\phi \times N\phi}{60a}$ 

step4: Find Bay:

spec magnetel Bay = pp

trading

=0.4928 wb)m2

C. GIOKUL, AP/FEE

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**S Nieto** 

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