## DEPARTMENT OF AEROSPACE ENGINEERING <br> I I T Kanpur

Helicopter Theory

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1. Plot the variation of wake skew angle as a function of advance ratio for the tilt angles, given below.
i. $\quad$ Assume thrust coefficient $\mathrm{C}_{\mathrm{T}}=0.005,0.007,0.009$
ii. Rotor disk tilt angle $\alpha=0$ deg., 5 deg., 10 deg and 15 deg .
iii. Plot the curves in one figure
iv. Your observations.
