DEPARTMENT OF AEROSPACE ENGINEERING 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. Assume thrust coefficient C_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.