## VISHWAKARMA INSTITUTE OF TECHNOLOGY

## Department of Engineering, Sciences and Humanities

FY - 2022-2023 - SEM 1

**ES1035: Robot Mechanics and Electronics** 

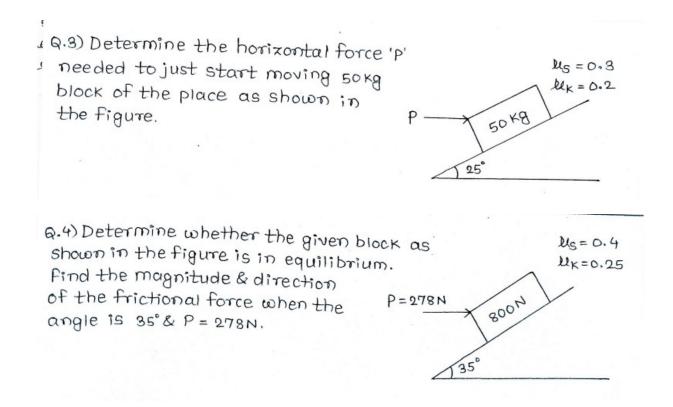
## **HOME ASSIGNMENT NO 2**

## **Friction**

Q.1) 800 N block is resting on a rough horizontal surface as shown in the figure, for which the coefficient of friction is 0.3. Determine the force required to cause motion, if applied to the block horizontally what is the minimum force required to  $u_s = 0.3$  Start the motion.

Q.2) A body of weight 500N is kept on a horizontal plane & a force 'P' is applied to move the body as shown in the figure. Find the magnitude of force required, if the coefficient of static friction is 0.6.

500N 548 les=0.6



Important Note: Last date of assignment submission is 17th Jan 2023.