**Date: 6/feb/2024**

**Exp 7:**

1.Plot bulk mean temperature, wall temperature and heat transfer coefficient profiles for the constant heat flux at the wall case and explain the trend. (3 m)

2. What does thermally fully developed flow mean? (1 m)

3.Are we getting the local heat transfer coefficient or the average heat transfer coefficient in this experiment? How do we know that? (1.5 m)

**Exp 8:**

1. Write the energy balance for the test piece from first principles. Obtain the expression for the temp distribution for the same. (3 m)  
  
2.On the same graph, plot temperature vs time, for cooling for a specimen by forced convection and by natural convection. Explain. (1.5 m)