Universiti Malaysia PAHANG

Engineering • Technology • Creativity

FACULTY OF MECHANICAL ENGINEERING

BMM4783 COMPUTATIONAL FLUID DYNAMICS

QUIZ #2

Consider air flowing through a steel tapered tube of 2.5 m long. The inlet ad outlet diameters of the tube are 0.25 m and 0.5 m, respectively. The air enters the tube at a velocity of 0.2 m/s. using Ansys Fluent

1. determine the velocity and pressure distributions inside the tube,
2. plot velocity distribution along the axis of the tube, and
3. conduct mesh indecency test .