

DEPARTMENT: MECHANICAL SEMESTER: 4

SUBJECT NAME: Fluid Mechanics and Hydraulic Machines

SUBJECT CODE: 3141906

FACULTY NAME: PROF. KEVAL SUTHAR

Assignment: 7 FLOW THROUGH PIPES

- 1. State the momentum correction factor and list the momentum correction factor for different flow in pipes.
- 2. Prove the friction head losses is equal to one third of total head at inlet for maximum power transmission through pipe.
- 3. Derive expression for the loss of head due to friction in pipes.
- 4. What do you understand by frictional resistance offered by pipe?
- 5. Derive an equation for loss of head due to sudden enlargement.
- 6. Write a short note on Water Hammer in Pipes.

