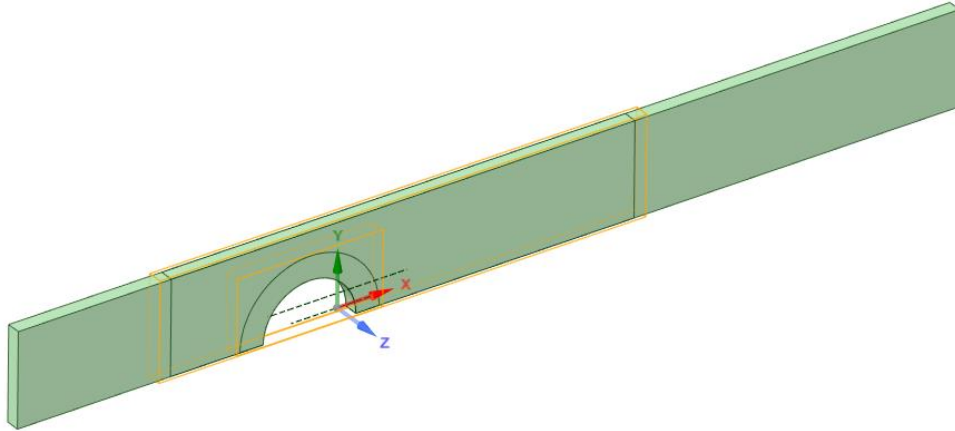


Project – 1

Semi-circular Obstacle in a channel

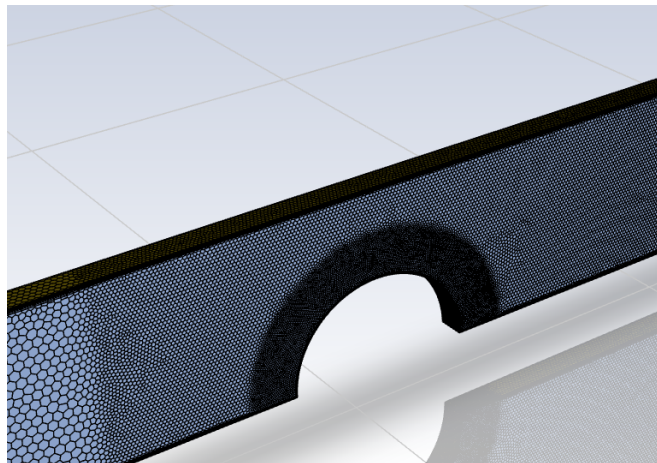
CAD model -



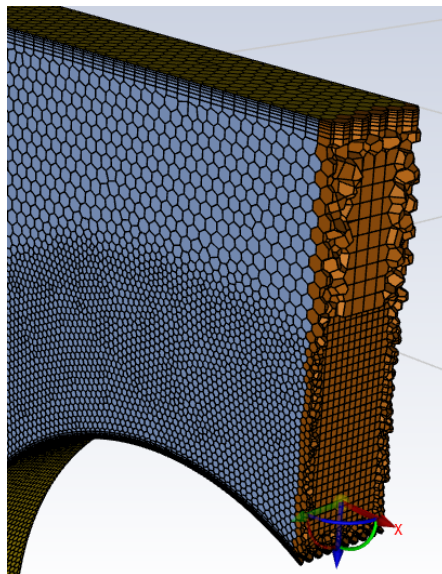
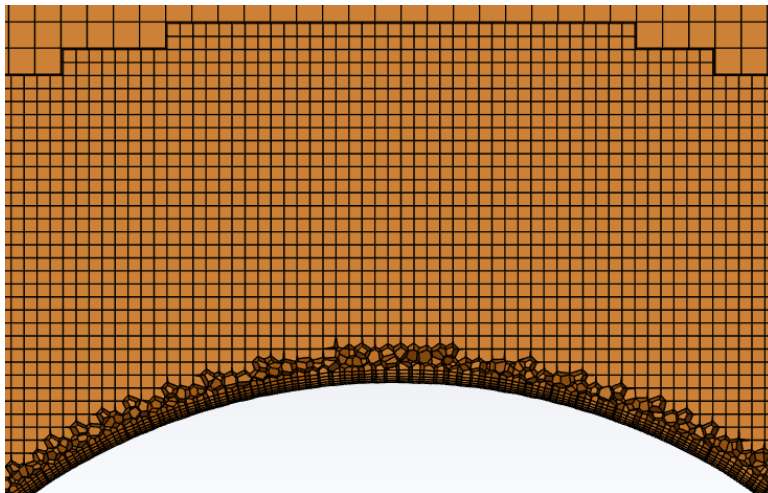
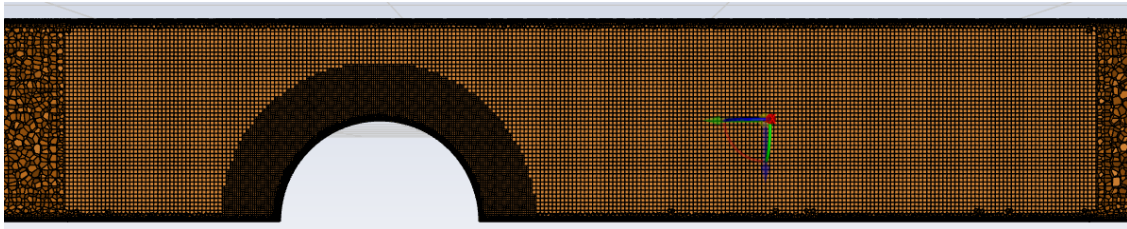
Geometric dimensions –

- Semi-circle radius – 50 mm
- Cross-section area – 100 mm * 15 mm
- Up-stream (semi-circle) length – 250 mm
- Downstream (semi-circle) length – 800 mm

Meshing Images -



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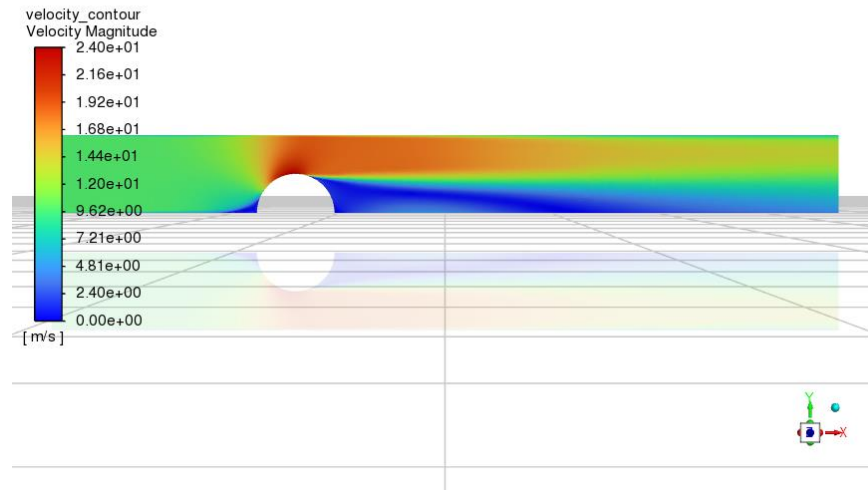


Results -

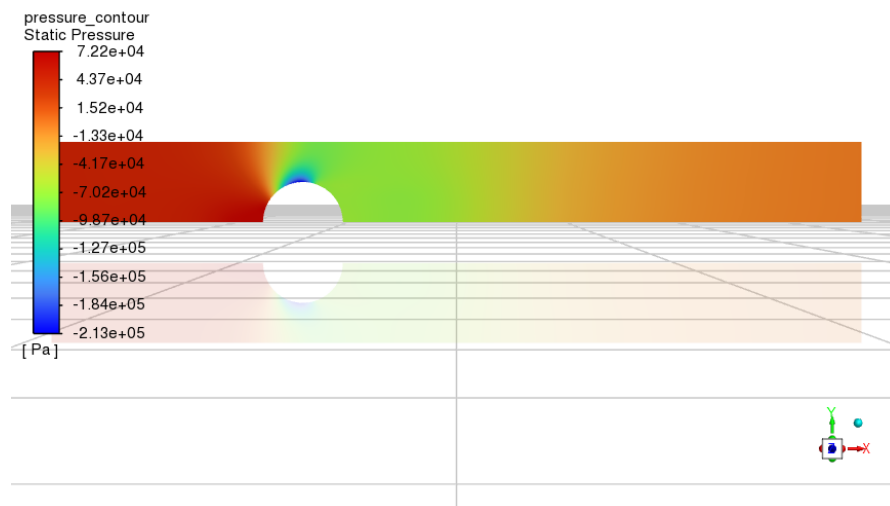
Flow parameters – 10 m/s

Fluid – water at room temperature.

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