**ASSIGNMENT**

**FLUID MECHANICS (FPE-122)**

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| Q.1 | State and prove Pascal law. |
| Q.2 | Define the following properties of fluid and mention the phenomena associated with each properties (1)Capillary (2) Surface Tension |
| Q.3 | Define: Compressibility, Bulk modulus of elasticity, Buoyancy, Centre of buoyancy, Metacenter and Metacentric height |
| Q.4 | Distinguish between   1. Rotational Flow and Irrotational Flow 2. Turbulent Flow and Laminar Flow |
| Q.5 | Explain Different types of Fluid. |
| Q.6 | Explain stability of floating body |
| Q.7 | Derive Bernoulli’s equations. |
| Q.8 | Derive Euler’s equation of motion and from this derive Bernoulli’s equation for liquid. |
| Q.9 | State assumption made in the derivation of Bernoulli’s equations. |
| Q.10 | What are the applications of Bernoulli’s equations? |