5.1 Analysis of Beam

- Types of Beams
  - Simple-support Beam
  - Overhanging Beam
  - Cantilever Support

- Types of Loads
  - Concentrated Loads
  - Distributed Loads

5.2 SHEAR & MOMENTS DIAGRAM

**Sign Convention**

- Positive Distributed Load
- Positive Shear Force and Bending Moment