The University of Melbourne
CVEN30008 Engineering Risk Analysis

Monte Carlo Simulation

1. **A simply supported timber beam of length 10 m is loaded with a central load P with μ_S= 5 kN and σ_S= 2 kN. Using MATLAB, run Monte Carlo Simulation to generate:**
   - **10 load values,**
   - **100 load values,**
   - **1,000 load values.**

   Compare their histograms to infer any differences in the simulations.