

**NPTEL course offered by IIT Madras
Computer methods of analysis of offshore structures**

Tutorial 12: Stochastic modelling

Answer all questions

Total marks: 25

1. What is a stochastic process?
2. Define cumulative distribution function, probability density function and mean value function of a stochastic process
3. How fatigue damage occurs in a structural system?
4. Derive an expression to estimate life time of a structural system undergoing cyclic loads

SC/IITM Copyright