

Subject Name : **STOCHASTIC PROCESSES AND APPLICATIONS MA20208/ MA20106**  
**Spring 2021-2022**

**Introduction to Probability, Definition and classification of stochastic processes. Discrete time Markov chains, Poisson Processes, Continuous time Markov chains, Renewal Phenomena, Martingales, Brownian Motion and related processes, Stochastic Calculus.**

References:

1. M.A. Pinsky, S. Karlin: An introduction to stochastic modeling, Academic press, 2011.
2. M. Liao: Applied Stochastic Processes, CRC press, 2015.
3. S.M. Ross: Introduction to Probability Models, Academic press.