Topics in Probability and Stochastic Processes

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This module aims to present some advanced probabilistic concepts and demonstrate their application to stochastic modelling of real-world situations. The topics covered include renewal theory, continuous-time Markov processes and Brownian motion. In addition to exposure to proofs and theoretical material, students develop practical skills through a large number of problems and worked examples.

Pinsky, M. A., & Karlin, S. (2011). An introduction to stochastic modeling (4th ed). Academic Press.

Ross, S. M. & MyiLibrary. (2007). Introduction to probability models (9th ed). Academic Press. http://catalogue.library.qmul.ac.uk/uhtbin/ezproxy.pl?url=http://lib.myilibrary.com?id=74703