Stochastic Dynamical Systems

Academic Year: (2018/2019)

Department assigned to the subject: Statistics Department Coordinating teacher: Type: Electives ECTS Credits : 6.0

Year : 4 Semester :

DESCRIPTION OF CONTENTS: PROGRAMME

1. Introduction to Stochastic Processes

- 2. Discrete Markov Chains
- 3. Continuous time Markov Chains
- 4. Renewal Processes
- 5. Queuing theory
- 6. Random Graphs

7. Case studies:

Monte Carlo Algorithm, PageRank Algorithm, Call centers, Social networks.

% end-of-term-examination: % of continuous assessment (assigments, laboratory, practicals…):	60
	40

Review date: 11-04-2018