# MATH 332

## Theoretical Aspects of Stochastic Processes

## METU Mathematics Department

## SPRING SEMESTER - 2026

Titles of Videos:

1) Math 332-1: Section 1.1. Finite Markov Chains, Definitions and Examples-1
2) Math 332-2: Section 1.1. Finite Markov Chains, Definitions and Examples-2
3) Math 332-3: Section 1.2. Long-time Behavior and Invariant Probability
4) Math 332-4 Section 1.3. Classification of States-1
5) Math 332-5 Section 1.3. Classification of States-2
6) Math 332-6 Section 1.3. Classification of States-3
7) Math 332-7 Section 1.4. Return Times-1
8) Math 332-8 Section 1.4. Return Times-2
9) Math 332-9 Section 1.5. Transient States-1
10) Math 332-10 Section 1.5. Transient States-2
11) Math 332-11 Section 1.5. Transient States-3
12) Math 332-12 Section 1.5. Transient States-4
13) Math 332-13 Section 2.1. Infinite Countable State Space Stcohastic Processes, Introduction
14) Math 332-14 Section 2.2. Recurrence and Transience-1
15) Math 332-15 Section 2.2. Recurrence and Transience-2