

## ICTS Lectures

Title : Introduction to Ergodic Theory

Speaker : Anugu Sumith Reddy, ICTS – TIFR, Bangalore

Date :

08/05/2019 (Lecture 1)	15/05/2019 (Lecture 2)
22/05/2019 (Lecture 3)	29/05/2019 (Lecture 4)
05/06/2019 (Lecture 5)	12/06/2019 (Lecture 6)
19/06/2019 (Lecture 7)	26/06/2019 (Lecture 8)
03/07/2019 (Lecture 9)	10/07/2019 (Lecture 10)
17/07/2019 (Lecture 11)	24/07/2019 (Lecture 12)

Time : 2:30 PM – 4:30 PM

Venue: : Feynman Lecture Hall, ICTS Campus Bangalore

Abstract : Ergodic theory is the study of asymptotic properties of action of groups on space (with some underlying structure). In this set of lectures, following topics will be covered

- Measure Preserving Transformations (MPT), Ergodicity, Mixing, Spectrum of MPT.
- Measure theoretic entropy.
- Topological dynamics, Invariant measures, Topological entropy.
- Thermodynamic formalism.