## Course Title: Introduction to symbolic logic

**Instructor:** K. Subramaniam
**Credits:** 2
**Duration:** 12th February to 15th April 2019

This course will introduce participants to the analysis of deductive reasoning symbolically following a natural deduction approach rather than an axiomatic approach. It will cover syntactic and semantic aspects of basic sentential and predicate logic and provide a brief introduction to some metatheoretical concepts in logic.

The course is intended to be a pre-requisite to a course in mathematical logic, which will be announced later.

The basic text for the course is Allen, C., & Hand, M. (2001) *Logic primer,* Mit Press. A secondary text is Lemmon, E. J. (1987) *Beginning logic,* CRC Press.

The course will consist of assigned chapters and exercises followed by discussion and tutorials. Participants will meet once a week for 3.5 hours (0.5 hour break in between). There will be 8 meetings in all. Assessment for the course will be based on completion of selected exercises in the texts.

The schedule for the month of February is given below. Schedules for March and April will be announced later.

Feb 12 (Tue): 2 to 5.30 pm

Feb 19 (Tue): 2 to 5.30 pm

Feb 26 (Tue): 2 to 5.30 pm