This course provides an introduction to the paradigm of logic programming --- that is programming in the Horn clause subset of first order logic.

The course will focus primarily on the practical aspects of logic programming with an emphasis on programming in Prolog. We will study different programming styles and seek elegant logic programming style solutions to various types of algorithms.

The course will also introduce the basics of Boolean SAT solving and modern techniques to encode hard search problems in SAT. This is a fast emerging approach which has many industrial success stories due to the huge advances of the last few years in SAT solving technology.

Prerequisites:

For undergraduate students: PPL & Algorithms;
For graduate students: none