Course: CS 1050 C

Instructor : Prasad Tetali, office: Skiles 126, email: tetali@math.gatech.edu Office Hours: Wed. Fri. 4:30 – 5:30pm; Thurs. 2:00 – 3:00pm (tentative)

Course Outline:

Text book: *Discrete Math with Applications* (Second Edition, 1995), by Susanna S. Epp; publisher: Brooks/Cole – Thomson Learning.

Please pay attention to class notes though, since treatment might deviate!

Course Objective.

• Introduction to fundamental concepts in Computing and Discrete Math, with special emphasis on (mathematical) Reasoning.

Topics:

- Very elementary number theory
- Induction
- Set theory
- The Logic of Statements
- Basics of Counting and Probability
- Functions
- Recursion
- Efficiency of Algorithms
- Relations
- Graphs and Trees

Most topics will be discussed for about a week.

General grading policy : Homeworks 15%, Tests 45%, Final exam 40% Grade A: 90% and above, Grade F: 50% and below.

Test 1: Wednesday, September 10th

Test 2: Wednesday, October 8th

Test 3: Wednesday, November 5th

No make-up tests will be allowed.

Homeworks will be assigned, collected and graded on a weekly basis. You are strongly advised to (attempt to) solve all the homework problems, and to learn the solutions to those missed.

Late submission of HWs is discouraged with a penalty of 30%.

Suggestions:

- Please feel free to ask questions at any time: before, after or during the class.
- Please make use of my office hours.
- Class participation and discussion is highly encouraged.

Teaching Assts.: Kim, Woo Young and Chakrabarthy, Deeparnab