LTCC Basic Pure Course

Title: Graph Theory

Basic Details:
- Core Audience: Pure Mathematics
- Course Format: Core (10h)

Course Description:

- Keywords: Graph colouring. Planar graphs and topological graph theory. Ramsey theory. Random graphs. Algorithmic and complexity aspects. Extremal graph theory

- Course outline: Our aims in this course would be twofold. First, to discuss some of the major results of graph theory, and to provide an introduction to the language, methods and terminology of the subject. Second, to emphasise various approaches (algorithmic, probabilistic, etc) that have proved fruitful in modern graph theory: these modes of thinking about the subject have also proved successful in other areas of mathematics, and the skills learnt in this course should be transferable to other areas of mathematics.

Lecture details:
- Lecturer: P D Allen, LSE