

# Selected topics from graph theory

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**Timetable:** 8 hrs. Lectures on May 9 and 11, 2017, 13:30-17:30 , Torre Archimede, Room 2BC/30.

**Course requirements:** Basic knowledge in graph theory and discrete optimization (in Italian)

**Examination and grading:** To be discussed with the participants.

**SSD:** MAT/02/06/09

**Aim:**

- adding topics to the questions discussed in the courses “matematica discreta” and “ottimizzazione discreta”,
- addressing some of the prerequisites for the course “tree covering: alea and applications”

**Course contents:**

- English terminology in graph theory
- Extremal graph theory
- Algorithmic graph theory
- Random walks and Markov chains
- Eigenvalues of graphs