

# Valid inequalities for Integer Programs

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**Timetable:** 10 hrs.

**Course requirements:** Linear algebra, advanced knowledge of Linear Programming, basic Graph Theory.

**Examination and grading:** Seminar on a subject assigned by the Instructor

**SSD:** MAT/09

**Course contents:**

- Basic Polyhedral Theory
- Chvatal inequalities
- Split and Mixed-integer inequalities
- Lift and project
- Closures of rational polyhedra