

# Approximation Algorithms (ADM III)

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## General Remarks

- ▶ lectures:  
Wednesday, 10:15 – 11:45, MA 313  
Friday, 10:15 – 11:45, MA 313
- ▶ no lecture on: 19.10., 2.11., 25.1.
- ▶ exercises as part of lectures: set of problems as homework once in a while
- ▶ final oral exam (Modulabschlussprüfung) in spring during the semester break (details t.b.a.)

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# Literature

The course is based on selected parts of the textbook:

- ▶ David P. Williamson, David B. Shmoys, *The Design of Approximation Algorithms*, Cambridge University Press, 2011

Further reading:

- ▶ V. V. Vazirani, *Approximation Algorithms*, Springer Verlag, 2001
- ▶ G. Ausiello, P. Crescenzi, G. Gambosi, V. Kann, A. Marchetti-Spaccamela, M. Protasi, *Complexity and Approximation: Combinatorial Optimization Problems and Their Approximability Properties*, Springer Verlag, 1999
- ▶ D. S. Hochbaum (ed.), *Approximation Algorithms for NP-Hard Problems*, PWS Publishing Company, 1995
- ▶ B. Korte, J. Vygen, *Combinatorial Optimization*, Springer Verlag, fifth edition, 2012