**October 27, 2011** Room 16 (14:00-16:00), Room 42 (16:00-19:00):  
**Introduction to Combinatorial Optimization**(tailored for students who did not follow an Operations Research course):  
Contents  
1. Introduction: Some easy examples  
2. Linear Programming  
3. Optimization problems  
4. Integer Linear Programming  
  
  
**November 3, 2011** Room 16 (14:00-16:00), Room 42 (16:00-19:00)  
**November 7, 2011** Room 82 (14:00-19:00)  
**November 10, 2011** Room 16 (14:00-16:00), Room 42 (16:00-19:00)  
**November 14, 2011** Room 82 (14:00-19:00)  
**Models and Algorithms for Matching and Assignment Problems**Contents  
1. Introduction  
2. Theoretical foundations: matching problems  
3. Maximum matching applications  
4. Linear sum assignment problem  
5. The Hungarian algorithm  
6. Non-Hungarian algorithms  
7. Other linear assignment problems (k-Cardinality, bottleneck, balanced)  
8. Quadratic assignment problems  
  
The slides of each lecture will be available few days in advance at my site:  
  
<http://www.or.deis.unibo.it/staff_pages/martello/cvitae.html>  --> Courses --> PhD courses