Applied Operations Research

Mario Vanhoucke

Course material:
Book with slides: A bundle with slides entitled "Applied Operations Research" by Mario Vanhoucke will also be made available by Academia Press (and distributed by the student representatives). Academia Press has a student website available at www.story4students.be. The book will become available via the student association at the start of the course. Check their website at www.vek.be for more information.

Additional slides: on Minerva
Course outline

Friday, 30/09/2016	***Class session 1*** - Practical details about the course - A general introduction to Operations Research (review) - An introduction to the case
Friday, 07/10/2016	***No class session!*** - Beware that you finish case A - Available for questions between 13.00 and 18.00 (room 120.012)
Friday, 14/10/2016	***No class session!*** - Beware that you finish case B - Available for questions between 13.00 and 18.00 (room 120.012) - Submit your first report (cases A and B) to room 120.013 before 16.30h
Friday, 21/10/2016	***Short group session!*** - Beware that you finish case C - Individual feedback on your first report (room 120.012, see Minerva schedule)
Monday, 24/10/2016	***Class session 2*** - Practical case study on personnel scheduling (= topic of the case) - Integration of various OR techniques
Tuesday, 25/10/2016	***No class session!*** - Available for questions between 13.00 and 16.00 (room 120.012) (Note that I leave for a teaching assignment in Beijing and I won't be physically available till 10/11/2016)
Friday, 04/11/2016	***Class session 3*** - Heuristic and meta-heuristic optimization - Heuristic programming skills necessary to solve case E
Friday, 18/11/2016	***No class session!*** - Beware that you finish case D - Submit your second report (cases C and D) to room 120.013 before 16.30h
Friday, 25/11/2016	***Short group session!*** - Beware that you review cases A-D and that you start working on case E - Individual feedback on your second report (room 120.012, see Minerva schedule)
Friday, 02/12/2016	***Class session 4*** - Monte-Carlo and discrete-event simulation - Risk analysis skills necessary to solve case F - Assistants are available for questions all days (room 120.011)
Friday, 09/12/2016	***Class session 5*** - Guest speaker: From research to consultancy! - Assistants are available for questions all days (room 120.011) - Beware that you finish cases E and F
Friday, 16/12/2016	***No class session*** - Presentation of your main results (15 minutes, see Minerva schedule) - Submit your final report at the start of your presentation

General group feedback will be available (announced on Minerva) after reading the final reports.