



Advanced Information Systems and Business Analytics for Air Transportation

Introduction to the Course

M.Sc. Air Transport Management June 1-6, 2015





Your Instructors

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Access: through email and course web portal, before or after class





Course materials

- No main textbook: most course material is completely new!
- Materials from following textbooks will be used in some of the analytics lectures:
 - Saxena and Srinivasan, Business Analytics: A Practitioner's Guide, 2013, Springer
 - Kantdarzic, Data Mining: Concepts, Models, Methods and Algorithms, 2011, Wiley
- All materials posted on the course website and available in the course pack
 - Syllabus
 - Class slides, notes
 - **Cases**





Academic assessment

Project	40%	Application of IT/IS
Case Study	10%	Data in Excel
Final Exam	40%	3 hrs
Participation	10%	Engage, quality of contribution
Working in teams		4-5 people per team
Ad hoc Homework		Important for applying concepts





Learning objectives

- What is IT/IS?
 - → The role of IT/IS
 - ✓IT/IS in aviation.
 - · GDS, RM
 - Operations
 - Maintenance, etc.
 - → Developing IS
- What is data analytics?
 - Analytics in Excel and other software
 - Aviation cases
 - Forecasting, simulations
 - Optimization
 - Machine learning
 - Visualization
- Application
 - Develop/propose an IS/Analytics solution

