FoF 2015 | Conference
Preparing Aviation Executives for the Future
Dr. Ivan Sikora, PhD MRAeS AFHEA
Course Director MSc Air Safety Management
School of Mathematics, Computer Science and Engineering
City University London - leading global university committed to academic excellence and focused on business and the professions

<table>
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<th>83%</th>
<th>Top 10</th>
<th>Top 5%</th>
<th>75%</th>
<th>Top 10</th>
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<td>of students are satisfied with the quality of their education</td>
<td>in the UK for graduate salaries</td>
<td>of universities in the world</td>
<td>of City's research was rated as world leading and internationally excellent</td>
<td>in the UK for international students</td>
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The School of Mathematics, Computer Science & Engineering has been offering outstanding courses tailored to the needs of the professions for more than 100 years.

| RAeS accredited Aviation Master Programs | Over 450 current Master students, more than 1000 Alumni | 120 years of experience in training engineering professionals | £13m spent to refurbish facilities including UG education spaces alongside cutting-edge biomedical and electrical engineering research laboratories | 1st institution to introduce an Aeronautical Engineering course in the UK |
Our students

• 17,500 students
• About 58% of our students are from the UK, 15% from the rest of the EU and 27% from outside the EU
• Around 35% of our students are on postgraduate or research programmes.
School of Mathematics, Computer Science & Engineering – who are we?

The 3 MSc Programmes for Aviation Professionals (Air Transport, Air Safety & Aircraft Maintenance) within the Department of Mechanical Engineering and Aeronautics have achieved global recognition:

- 450 Global MSc Students from Aviation Industry,
- 25 Visiting Lecturers from the Industry and City University London Lecturers,
- 10 PhD students.
2014 Research Excellence Results

General Engineering
• The School’s research has been highly rated in the 2014 Research Excellence Framework, which assessed the quality of research at all UK higher education institutions. 79% of the research in our Engineering disciplines was rated as of world leading (4*) and internationally excellent (3*) quality. This ranks City 15th for research power (a measure based on both research quality and research volume)

Computer Science and Informatics
• The School’s research has been highly rated in the 2014 Research Excellence Framework, which assessed the quality of research at all UK higher education institutions. Research in Computer Science and Informatics was rated in the top 30 for the volume of research classed as world leading (4*) and internationally excellent (3*). It was also ranked in the top 25 for research power (a measure based on both research quality and research volume)

• Next to many other research recognitions and rewards of City University London, the Aeronautics department is well known for its 5 windtunnels, several simulators and other research facilities. In cooperation with Computer Science research on Human Computer Interaction, we develop our expertise in Human Factor research and pilot-cockpit interaction
Academics

**Capt. Tilmann Gabriel MBA**
Senior Lecturer
Course Director MSc Air Transport/Aircraft Maintenance Management
37 Years Aviation Industry Executive and Professional Pilot

**Dr. Ivan Sikora**, PhD MRAeS AFHEA
Senior Lecturer
Course Director MSc Air Safety Management
20 Years Aviation Safety Executive

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22 Visiting Lecturers from the aviation industry, i.e.
- [Michael O’Donovan](#) – Airline Operations
- [Steve Shaw](#) – Airline Marketing
- [Tim Coombs](#) – Air Transport Economics
- [Prof. Robert Bor](#) – Aviation Psychology
- [Capt Morten Kjellesvig](#) – Safety Management
- [Capt Giancarlo Buono](#) – Regulations

(Click on the names to see video introductions)
Our courses

Our postgraduate portfolio offers a range of exciting, flexible and innovative courses, we offer:

- Airline Operational Regulatory Compliance
- Airworthiness
- Airline Maintenance
- Airline Operations
- Airline Marketing
- Human Resource Management
- Air Transport Economics
- Financial Accounting
- Crisis Management
- Airline Fleet Planning
- Airline Business
- Safety Management - Tools and Methods
- Active Safety Management
- Psychology in Aviation Management
- Airport Operations
- Developing a Business Plan
- Air Accident Investigation
- Leadership in Organisations
- Airline Revenue Management and Finance
- Safety Risk Management
- Sustainable Aviation

Next to the full MSc programme, we offer a 4 Module PG Degree and an 8 Module PG Diploma Course
MSc Air Transport Management

MSc Aircraft Maintenance Management

MSc Air Safety Management

(click on the programmes to get to the City webpage)
Course overview

- Students take a total of eight modules and the assessment/induction workshop as follows: Assessment/Induction Workshop – assessed by one coursework only – no credits.
- Students are required to pass a coursework assessment / Induction Module (from Fall 2015) in order to progress on to the programme.
- Three ‘Compulsory’ modules. - Compulsory modules are assessed by examination and Coursework 'A’ – 15 credits
- Five ‘Elective’ modules – Elective modules are assessed by coursework A and coursework B – 15 credits.
- Each student achieves the required credit, depth and breadth of knowledge and understanding but yet provides the student with a flexibility to deepen their knowledge in areas most suitable to their needs.
- Finally, a 15,000 word dissertation has to be researched and written for 60 credits.

“This MSc course gives an excellent overview of the relevant aviation topics and prepares you greatly for your further career”, Lukas Mayer, FO STAR Air

“Since …Jan I am head of the Flight training section within the Swedish CAA. My work with you or perhaps your work with me was undoubtfully to my favour.”, Petter Eklund

“This is an excellent course that I have enjoyed immensely. Mind you – it is hard work too! All of the lecturers and staff are top notch, and are all industry professionals.”

Mark Charlwood, British Airways
MSc Air Transport Management

Core Modules include:
- Airline Operations
- Air Transport Economics
- Airline Business

MSc Aircraft Maint. Management

Core Modules include:
- Airline Maintenance
- Airline Operational Regulatory Compliance
- Airworthiness

MSc Air Safety Management

Core Modules include:
- Crisis Management
- Active Safety Management
- Safety Risk Management

Electives:
- Airline Ops Regulatory Comp.
- Airworthiness
- Airline Maintenance
- Airline Operations
- Airline Marketing
- Human Resource Management
- Air Transport Economics
- Financial Accounting
- Crisis Management
- Airline Fleet Planning
- Airline Business
- Safety Mngmt - Tools and Methods
- Active Safety Management
- Psychology in Aviation Management
- Airport Operations
- Developing a Business Plan
- Air Accident Investigation
- Leadership in Organisations
- Airline Revenue Mngmt and Finance
- Safety Risk Management
- Sustainable Aviation
Learning outcomes

• The Aviation Master Programmes are designed to give the students, who have mostly not studied in a University before, the tools and pre-requisites to achieve an academic Master degree. This degree will have significant value for your further career path and it entitles you to continue on your research endeavour to even higher academic achievements (PhD).

• The Programmes also are designed to give the students tools and best practice ideas for their further management career.

• As a minimum, these Master Programmes give the student a satisfaction of completion, having achieved an academic degree while learning in great detail about the complexities of the aviation industry, the regulations and an attitude of safety and effective risk management.

Benefits of study at City

• City University offers all courses in London, but also in its campus in Dubai, some modules are taught in Bahrain and Frankfurt. Giving the student flexibility in planning and needing lesser travel costs.

• City is using, next to its full time Professors, many experts from the Aviation Industry, Visiting Lecturers, thus making sure that the latest developments of the aviation industry are subject of the teaching.

• City University has over 450 global Master students enrolled at any given time, more than 1000 Alumni so far, a big networking advantage for all students.
Career prospects

- A Check-in clerk at Gatwick when enrolled, a 2000 Graduate is now President and CEO of Estonian Airways.
- A First Officer when enrolled and in 2005 the first UAE National sponsored by Emirates to Graduate is now a Management Captain.
- An RAF pilot when enrolled is now Director, Marketing for Bombardier, Eastern Europe and Soviet Union.
- An RAF Air Traffic Controller immediately moved into a senior training position at Eurocontrol, Brussels.
- An Emirates maintenance engineer now managing the Emirates New York base which turns-round seven flights a day and deals with over 1,000,000 passengers a year.
- A Self-employed electronics engineer when enrolled has joined ICAO in a senior position of air traffic control in Montreal.
- An RAF ground operations administrator student who is nearing completion has joined the Norwegian CAA.
- A student who was a shift controller has become Deputy Manager KLM/Air France Terminal staff, Heathrow.
Scholarships

• 4 to 5 annual bursaries are available from the Honourable Company of Pilots (details via our Administration Office, see link above)

• Scholarship programme (details via our Administration Office)
Student support

- Student Centre
- Library services
- IT support
- Students’ Union
- Sport and fitness
- Social activities
Student facilities

Our state-of-the-art facilities provide a unique environment for studying, socialising and building your professional network

– New Students’ Union café/bar
– New CitySport
Stay connected...
Thank you for listening...

To find out more visit:

http://www.city.ac.uk/courses/postgraduate/air-transport-management
http://www.city.ac.uk/courses/postgraduate/aircraft-maintenance-management
http://www.city.ac.uk/courses/postgraduate/air-safety-management

Email: pgaviation@city.ac.uk
Tel: +44 20 7040 8112