

# Istanbul Technical University Airport Planning and Management

March 2015

## Course Outline

### Day 1

#### Module 1 (4 hours)

##### Introduction to the Airport Business

Dr. Tretheway

- “Introduction”  
Anne Graham (2001)  
Ch. 1 in *Managing Airports: An International Perspective*  
pp. 1-8.
- Selected passages  
R de Neufville and A Odoni (2013)  
Chapter 1 in *Airport Systems: Planning, Design and Management: 2<sup>nd</sup> edition*,  
McGraw Hill Education  
pp. 3-5, 9-18.
- “Airports and their role in the value chain”  
B. Koch and S. Budde (2005)  
in W. Delfmann, H Baum, S Auerbach and S. Albers (editors)  
*Strategic Management in the Aviation Industry*  
Ashgate Publishing  
pp. 379-381.
- Selected readings  
Riga Doganis (1992)  
*The Airport Business*,  
pp. 7-10, 48-58.

#### Module 2 (2 hours)

##### The airline-airport relationship

Dr. Tretheway

- “The Airport – Airline Relationship”  
Anne Graham (2001)  
Ch. 5 in *Managing Airports: An International Perspective*  
pp. 90-125.

- Passage on airline – airport use agreements and slot management  
N. Halpern & A Graham (2013)  
in *Airport Marketing*  
pp. 196-203.
- Supplemental material  
!! You do not need to read this carefully.  
It is provided as examples of airline-airport contracts  
AAAE Airport Agreement Guide, Volume 1  
“Airport Use Agreement for Signatory Airline”  
“Airport Use Agreement for Non-Signatory Airline”

## Day 2

### **Module 3 (3 hours)**

#### **Regulation of Airports**

Dr. Tretheway

- “Economic Regulatory Environment,”  
N. Halpern & A Graham (2013)  
in *Airport Marketing*  
pp. 156-159.
- Selected passages  
Airports Council International (2013)  
*The ACI guide to Economic Regulation*  
pp. 1, 2, 5-6, 10-11, 14-18, 22-25, 27-28, 32-35, 45-49, 68-69, 79-80.

### **Module 4 (4 hours)**

#### **Airport Marketing and Revenue Development**

Dr. Tretheway

- “The Role of Airport Marketing”  
Anne Graham (2001)  
Excerpts from Ch. 7 in *Managing Airports: An International Perspective*  
pp. 161-177
- “The ASD Process”  
N. Halpern & A Graham (2013)  
Section 4.3 in *Airport Marketing*  
pp. 66-71.

## Day 3

### **Module 5 (3 hours)**

#### **Airport Governance and Privatisation**

Dr. Odoni

- “The changing nature of airports”  
Anne Graham (2001)  
Ch. 2 in *Managing Airports: An International Perspective*  
pp. 9-52.
- “Airport Economics and Performance Benchmarks”  
Anne Graham (2001)  
Ch. 3 in *Managing Airports: An International Perspective*  
pp. 53-70

### **Module 6 (2 hours)**

#### **Airport Operations**

Dr. Sulmona

- Excerpts from  
N Ashford, M Stanton & C Moore (1997)  
*Airport Operations*  
McGraw Hill, pp. 1-18, 29-46

### **Module 7 (2 hours)**

#### **Security and Facilitation**

Dr. Sulmona

- “Facilitation and Airport Services”  
Airports Council International (Nov. 2009)  
ch.36 in *ACI Policy and Recommended Practices Handbook*

## Day 4

### **Module 8 (2 hours)**

#### **Financing Airport Development**

Dr. Odoni

- “Organisation and Financing”  
de Neufville, R. and A. Odoni (2013)  
chapter 7 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- “User Charges”  
de Neufville, R. and A. Odoni (2013)  
chapter 8 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- Innovative Finance and Alternative Sources of Revenue for Airports  
ACRP – Airport Cooperative Research Program (2007),  
Transportation Research Board, Washington, DC

### **Module 9 (2 hours)**

#### **Airport Terminal Rentals and Concessions**

Dr. Sulmona

- “The provision of commercial facilities”  
Anne Graham (2001)  
Ch. 6 in *Managing Airports: An International Perspective*  
pp. 126-144

### **Module 10(2 hours)**

#### **Land Development**

Dr. Sulmona

- Same reading as module 9

## Day 5

### Module 11 (3 hours)

#### The Master Plan Process

Dr. Sulmona

- “The process of preparing Master Plan Studies”  
U.S. Federal Aviation Administration (2005)  
*Advisory Circular 150-5070-6B*

### Module 12 (5 hours)

#### Capacity Management, Congestion and Slots

Dr. Odoni

- “Airfield Capacity”  
de Neufville, R. and A. Odoni (2013)  
chapter 10 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- “Airfield Delay ”  
de Neufville, R. and A. Odoni (2013)  
chapter 11 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- “Demand Management”  
de Neufville, R. and A. Odoni (2013)  
chapter 12 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- “Detailed Design of Passenger Buildings”  
de Neufville, R. and A. Odoni (2013)  
chapter 16 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education
- Airport Passenger Terminal Planning  
ACRP – Airport Cooperative Research Program (2007),  
Report 25 vol. 1  
Transportation Research Board, Washington, DC.  
pp. 43-47, 276-297
- Airport Passenger Terminal Planning  
ACRP – Airport Cooperative Research Program (2007),  
Report 25 vol. 2  
Transportation Research Board, Washington, DC.  
pp. 23-27

## Day 6

### **Module 13 (3 hours)**

#### **Ground Access and Distribution**

Dr. Odoni

- “Ground Access and Distribution”  
de Neufville, R. and A. Odoni (2013)  
chapter 17 in *Airport Systems: Planning, Design and Management, 2nd Edition*,  
McGraw-Hill Education

### **Module 14 (3 hours)**

#### **Airport Environmental Planning & Management**

Dr. Sulmona

- “Airports and the Environment”  
Airports Council International (Nov. 2009)  
ch. 6 in *ACI Policy and Recommended Practices Handbook*