

DRAGON LAB

Design for Re-establishing Airports' Gradual Normalcy

Leadership by Design - II Edition



Civil Aviation has been heavily impacted by more than a year of COVID-19 pandemic ravaging in 2020. Data reports are impressive: traffic is globally 74.7% lower than February 2019. In Europe, the latest surveys accounting to the end of April show the sector is recovering at a pace 20% slower than April 2019. In this context, it is quite remarkable that the day average is -60% if compared to 2019, because of the companies' strategy to cope the load factor expectation. In Italy, the same comparison shows a 70% decrease in air traffic, with 88,5% less passengers. The main problem for the sector remains the traffic flows recovery. These depend upon several factors, most of them deriving from country limitation policies and different situations.

WHEN

Fall term AY 2021-2022
Sept - Dec 2021
Distance learning Format

A common strategy remains hard to achieve because of new pandemic waves rising as strict regulation measures are released somewhere. A diffused and efficient vaccination campaign seems the only reasonable way to exit the ongoing situation, but the vaccination plans pace vastly fluctuates from country to country. This is a major issue for a globalized industry like Aviation.

WHERE

Firenze, IT

The program will offer the students a new design challenge looking forward to the post pandemic mobility recovery to win back carriers and passengers' confidence. The 2021 topic will focus on healthy Airport experiencing the detailed design of each space unit for passenger processing. Performance based building design (PBB) implemented within parametric modeling will support the interdisciplinary design to find out the optimized solutions in space functionality, energy use and proper antimicrobial materials. The program leads to encourage and guide innovation, collaboration, execution, and delivery. Drawing on the resources of TxP_Research Unit within the Architecture curriculum and its DRAGON Lab (Design for Re-establishing Airports' Gradual Normalcy) the course combines intuitive methods taught in the world's best design schools with the systematic, analytical methods for which TxP_R is world renowned.

TRACK

Master's Degree in Architecture
(B117)
Corso di Laurea in Architettura (B117)

You will learn how to enable an action based organizational culture in which collaboration is generated, lean and error skip is encouraged, and failure is analyzed as a source of learning resulting in successful innovation.

Students also will learn both strategic and hands-on techniques for structured exploitation through modeling.

By applying a design-centered approach to interdisciplinary team leadership, you will be able to conceive of radically innovative design options to multi-faced problems risen by the pandemic impact to airports and create solutions that passengers appreciate in their travel experience.

PRICE

Free for UNIFI Students

ECTS/CFU

European Credit Transfer System
Credits (ECTS): 8+4
Crediti Formativi Universitari (CFU): 8+4

Please visit our web site for updated information.
<https://www.dida.unifi.it/vp-608-txp-r.html?newlang=eng>



FACULTY



Prof. PhD Arch. M.A. Esposito
Full Professor

EXPERTS*



TBD
BEM Engineer



PhD Arch. F. Bosi
Airport Design, Teaching & Research Assistant

TAKEAWAYS

Students and teams attending will:

- Learn a shared process for airport architectural solutions
- Learn how to work across disciplines using an integrated approach to break down any separation
- Explore and practice the skill in lean processing
- Learn how to define passenger needs
- Acquire tools for creating nicer post covid-19 passenger experience in travel
- Explore antimicrobial materials world
- Engage in both a hands-on and analytical approach to problem solving through robust design process
- Learn practical, hands-on strategies for concept and model generation to the use
- Acquire new skills for communicating among and across the project participants
- Gain a deeper understanding and credibility among people working in different areas such as engineering, commercial and finance.

WHO SHOULD ATTEND

Students by B117 Architecture Program that have had passed all preparatory exams.

Applicants should preferably meet the following requirements:

- 3rd year B015335 class grade must be passed with good or excellent results
- Good or excellent English speaking/writing/comprehension
- Basic BIM Virtual Design and Construction software (e.g. Revit ©, etc.) proficiency

CONTACT INFORMATION

Please contact txp.revonline@gmail.com



We learned how to survive in the work environment and how to understand the other components of the Project Organization!

RATING

- Matilde e Martina

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* Please note expert and teaching assistant staff may subject to changes.