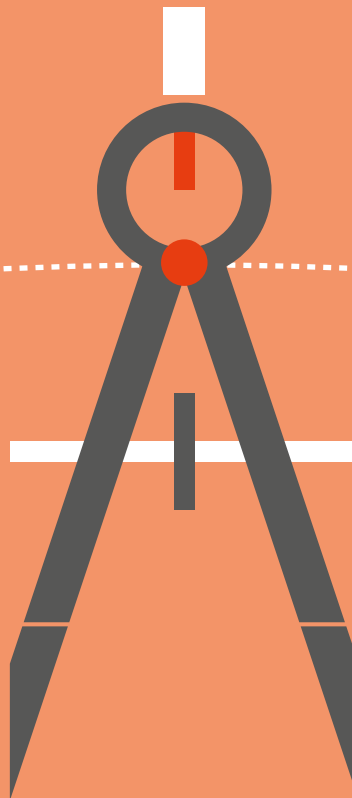


Façades Architecture Construction Engineering (4th edition)
Advanced course on innovative building facades



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Description

Eurac Research offers a high specialization training course on Façade Architecture, Construction and Engineering (FACE).

FACE aims at delivering thorough education for technical designers and consultants operating in the façade industry to help them keep pace with a constantly evolving market. The initiative is open to researchers and freelance professionals working in the same industrial field.

Joining FACE allows for a boost in multidisciplinary competence for façade professionals. The course provides insights into the contemporary façade market industry and enables technical designers and consultants to manage complex projects both at organizational and technical level. The program covers architectural concepts, functional requirements and the related technical skills based on a cross-sectorial and international approach.

Expected results

- Train well-rounded façade professionals able to operate at practically any step of the façade design and construction value chain
- Provide technical insights into the sector of complex building façades
- Develop independent research on façade design innovation
- Complete a hands-on individual project to be implemented within the industry

Job prospects

FACE alumni can actively contribute in innovating industrial processes within façade production and construction companies or further research on façade design within research institutions and as technical consultants.

FACE provides a façade design toolkit with a wide application potential in façade companies, from R&D to buy and sales, from technical consultancy to façade production management.

Participation is subject to admission procedure and payment of a tuition fee covering organizational costs.

Trainers

FACE trainers are outstanding professionals in the field of façade design, construction and operation, as well as experts and scholars developing disruptive research in the areas of façade adaptivity, flexibility, digital design and service development.

- ARUP Italy: Matteo Orlandi
- Frener & Reifer: Gerhard Ploner, Michael Reifer, Fabio Bortolotti, Sara Mangialardo
- Pichler Projects: Markus Walder, Harald Spitaler, Alessio Passera
- Reynaers: Elena Perlotti, Tommaso Pieraccini
- glassAdvisor: Luca Papaiz
- ILFI: Carlo Battisti
- Focchi: Luca Nicolini
- Skanska: Saverio Pasetto, Eleonora Troiani
- Politecnico di Milano: Angelo Lucchini, Alberto Speroni
- TU Delft: Thaleia Konstantinou, Juan Azcarate Aguerre
- TU München: Philipp Molter
- UNICMI: Paolo Rigone, Lara Bianchi, Valentina Ferrari
- Universität Innsbruck: Rainer Pfluger
- Eckersley O'Callaghan Engineers: Damian Rogan
- Politecnico di Torino: Fabio Favoino
- Eurac Research: Annalisa Andalaro, Stefano Avesani, Marco Larcher, Ingrid Demanega, Annamaria Belleri, Giuseppe De Michele, Simone Torresin

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Contents

Opening Event

21 October 2020 Bolzano/Bozen

Unit 01

22-23-24 October 2020 Bolzano/Bozen

FAÇADE TECHNOLOGY (general)

Design

- Conventional and advanced facades
- Visits to façade companies
- Double-skin and punctual façades
- Open BIM for façade contractor
- Project presentations and case study analysis

Unit 02

19-20-21 November 2020 Bolzano/Bozen

FAÇADE PHYSICS (general)

Energy performances

- Façade systems modelling and simulation
- Façade applied building physics
- Thermal analysis and condensation risk of critical nodes
- Façade and building ventilation
- Solar radiation and façade boundary conditions
- Glazing: optical, thermal and climate aspects

Unit 03

28-28-30 January 2021 Bolzano/Bozen

FAÇADE PHYSICS (advanced)

Energy performance

- Daylighting
- Acoustics
- Adaptive shading systems – design and performance
- Project Work – I

Unit 04

04-05-06 March 2021 Bolzano/Bozen

FAÇADE OPERATIONS (advanced)

From design to construction process

- Project management
- BIM & façade design + construction
- Envelope commissioning
- Maintenance, cleaning, diagnosis
- Façades and sustainability standards

Unit 05

08-09-10 April 2021 Milan

FAÇADE OPERATIONS (general)

Construction and regulatory contest

- Façade statics
 - Glass statics
 - Regulations and CE marking
- Façade tour – projects in Milan

Unit 06

13-14-15 May 2021 Bolzano/Bozen

FAÇADE TECHNOLOGY (advanced)

Design

- Adaptive and multifunctional facades
- Project Work – II
- Façade leasing concepts
- Free-form façade
- Quality control in façade glazing supply: free-form and load bearing glass focus

Final event

21-22 June 2021 Bolzano/Bozen

CONFERENCE MEETING with project work presentation

DEGREE

CEUs for professional architects and engineers

LANGUAGE

English

DURATION

120 hours + group or individual project work
+ opening event + final event

DATES

Opening event 21 October 2020

Course duration: October 2020 ÷ June 2021

Final event 21-22 June 2021

HOURS

Mon-Fri 9-18, Sat 9-13, except for the April 2021 unit
in Milan (Mon 14-18, Tue-Wed 9-18)

LOCATIONS

Bolzano (NOI Techpark), Milan (UNICMI)

TARGET GROUP

Technical staff and R&D in façade manufacturing and system supply companies, general contractors in the field of façade construction, technical consultants and independent façade professionals, early stage researchers in façade design, engineering and performance driven optimization

KEY TOPICS

Façade Design + Architecture + Construction + Maintenance

Façade value chain and supply chain management

Project planning, development and commissioning

MAX NUMBER OF TRAINEES

20

SCIENTIFIC COORDINATION

Annalisa Andalaro (Eurac Research)

INFORMATION

Marco Cecchellero, Eurac Research

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