

Applied Compositional Thinking for Engineers (ACT4E) - January 2021

A **new online free course** on Applied Compositional Thinking for engineers, open to **everyone** interested in learning how concepts from category theory can be made useful for tackling engineering problems. No special background knowledge needed.

Dates: the 7, 8, 11-15, 20-22, 25-29 of January, 2021.

Times: 17:00 - 18:00 CET ([time zone converter](#))

Format: each session will consist of:

- Short explanatory videos (to be watched in advance);
- a ca. 50 minute online lecture (allowing for questions and discussion).

Instructors: Dr. Andrea Censi, Dr. Jonathan Lorand, Gioele Zardini, plus guest lecturers

Content:

- Basic ideas of co-design and formal compositional engineering;
- elementary notions of category theory, along with different types of engineering examples;
- boolean profunctors, the category of design problems, and its properties.

Sign up & info: applied-compositional-thinking.engineering

Created by:

ETH zürich
D MAVT

Supported by:

 **NCCR**
Automation
 **FN-SNE**
SWISS NATIONAL SCIENCE FOUNDATION

In collaboration with:

 **TOPOS**
INSTITUTE