

Interactive Training Course

dynamita
PROCESS MODELING

from 26th April to 12th May 2022

This six online session course can be taken in three different ways:

- ➔ Introductory – First four sessions (700 EUR)
- ➔ Advanced – Last four sessions (800 EUR)
- ➔ Complete – All six sessions (1000 EUR)

Each session will be 4 hours.

Includes

- ➔ A one-month Sumo21 license
- ➔ A one-month Digital Twin license

Register by mail:

- ➔ ferenc@dynamita.com



Program details

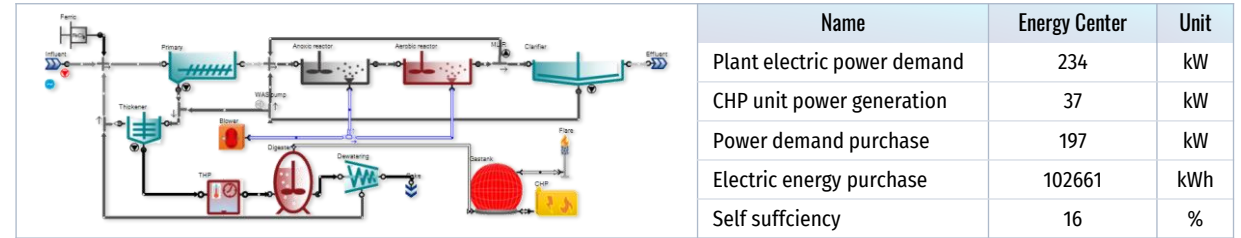
- ➔ next page

Contact

- ➔ web: www.dynamita.com
- ➔ for more information: info@dynamita.com

Modeling in Practice

in fundamentals and design applications



Who will benefit?

New users/modelers should take the introductory part (first four sessions). Existing or experienced model users can start from session 3. All six can be taken for a complete overview of Sumo if desired.

➔ Software familiarization

- ➔ What's new in Sumo21
- ➔ Learn how to use basic and advanced features and build process configurations
- ➔ Dynamic simulation set-up, Data plotting, Scenario analysis

➔ Full plant model calibration

- ➔ Wastewater characterization - Municipal and industrial, sludge feed, food waste
- ➔ Activated sludge and biofilm (including aerobic granular and MABR) systems
- ➔ BOD-removal/Nit-denit/Enhanced Biological Phosphorus removal/GHG model
- ➔ Predicting alpha factor for improved aeration design and modeling
- ➔ Modeling aerobic facultative lagoon (predict sludge buildup and dredging)
- ➔ Thermal hydrolysis, anaerobic digestion, and sidestream treatment
- ➔ Controllers: standard and ABAC, SRT control, AvN control, and NRCY control
- ➔ Energy/Cost module (Plant power demand, power generation, and self-sufficiency)

➔ Digital Twin for Process Improvement

- ➔ Taking your model real time using our state-of-the-art OPC UI and other options

Sumo21 complete training

26th April to 12th May 2022	Session 1 26th April	Session 2 28th April	Session 3 3rd May	Session 4 5th May	Session 5 10th May	Session 6 12th May
9-10 am	Introductions, modelling basics	Nitrification denitrification	Bio-P	Digestion	Sulfur, odours	Energy, Carbon footprint
10-11 am	Sumo familiarization	Aeration	Chem-P	Side-stream treatment	Biofilms Granular sludge	SumoSlang basics
11-12 am	Simple plant configuration	Model components, Fractions	Phase separation	pH in Sumo	Simple control	Digital Twin
12-1 pm	Steady-state, dynamic runs	Influent fractionation	Lagoons	Nutrient recovery	Advanced control	Project examples, summary