UNIVERSITY OF ZAGREB
FACULTY OF CHEMICAL ENGINEERING
AND TECHNOLOGY

FKITMCMXIX

DIAGNOSTICS
ADVANCED CONTROL
PROCESS OPTIMIZATION

LAM
LABORATORY FOR AUTOMATION & MEASUREMENTS

LABORATORY FOR AUTOMATION AND MEASUREMENTS

http://lam.fkit.hr

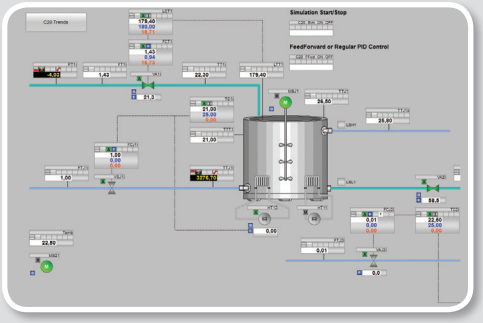


LABORATORY FOR AUTOMATION & MEASUREMENTS

SIEMENS
Ingenuity for life

Teaching **measurements**, **basic** and **advanced process control**, **diagnostics** and **optimization**.
Supported by industrial controllers, SCADA systems and diagnostic tools.
Simulation tools and 3D visualization.



SOFTWARE TOOLS

SIMIT · Comos Industry Solutions · OSIsoft.

APROMON – Process monitoring and diagnostics
PITOPS – Identification, control tuning and optimization
SIMCET – Process control analysis and simulation

PiControl Solutions



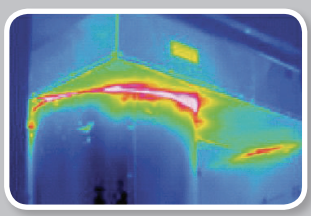
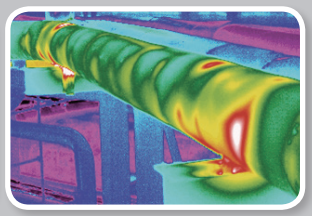
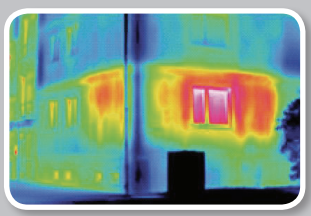
SERVICES

- PID control loop **tuning** and **optimization**
- Process control **analysis** and **simulation**
- System **identification**
- **Soft sensor** design and application
- **Advanced process control** (APC) design and implementation
- Advanced **batch process control**
- **Diagnostics**, **statistical analysis** and **predictive maintenance**
- **SCADA** system design
- Process control **education**

INFRARED THERMOGRAPHY

- **Heat loss** in plants and buildings
- **Faults** on electric installation and mechanical parts
- **Leakage** on heat equipment and piping

Infrared Training Center international certificates (**ITC Level I** & **Level II**)

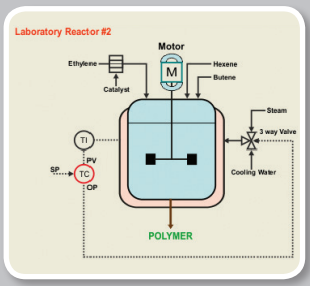





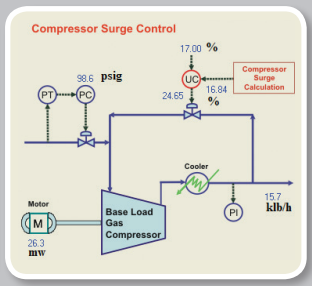


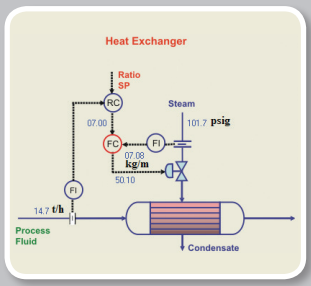
EDUCATION & TRAININGS

Practical process control courses with case studies from the real plants (petrochemical, chemical, paper, pharmaceutical, food, beverage, cement industries, power plants, *etc.*) using industrial process **interactive simulator**:

APC-1	Process control fundamentals
APC-2	Advanced process control
APC-3	Process and control diagnostics and optimization
APC-4	Process measurement
APC-5	Batch process control and optimization
APC-6	Statistical process control







CONTACT

University of Zagreb
Faculty of Chemical Engineering and Technology
Laboratory for Automation and Measurement
Savska c. 16/5A, HR-10 000 Zagreb, CROATIA
web: **lam.fkit.hr**
phone: +385 95 8124 151
email: *bolf@fkit.hr*

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