MicroNIR Academy

3-Day Training

30 June – 02 July, 2026



VIAVI Solutions

An Immersive Learning Experience

- Explore real-world case studies
- Engage in hands-on software sessions
- Choose from specialized sessions focused on handheld and process applications
- Gain practical skills and insights that drive results.

Audience and Training Goals

This training is intended for engineers, managers, and support staff interested in using NIR spectroscopy to solve process and material identification problems. It is designed to enable participants to leverage the full potential of NIR, and especially MicroNIR, in their daily activities.

During the three-day training, we will cover both theoretical and application aspects, including in-depth training on MicroNIR Pro software and practical sessions.

Main topics include:

- NIR theory and fundamentals
- Basic MicroNIR Pro software operations
- Exploratory analysis and process monitoring (PCA, Moving Block)
- Identification and classification methods (SVM, SIMCA, PLS-DA)
- Quantitative model development (PLS)
- MicroNIR instrument implementation for offline and online use
- Real-world case development and application deployment
- OPC UA/DA integration for process monitoring and control

Speakers

Eleonora Mustorgi earned a PhD in Analytical Chemistry and Chemometrics from the University of Genova, specializing in NIR spectroscopy for quality control and process monitoring. She joined VIAVI in 2022 as a MicroNIR Field Application Specialist.

Emiliano Genorini is a chemist with over 25 years of experience in NIR spectroscopy in the pharmaceutical and food sectors. He taught chemometrics at the Universities of Milan and Pavia for many years before becoming a MicroNIR Account Manager in 2015.

VIAVI Solutions

VIAVI Solutions' Optical Security and Performance Products (OSP) division stands at the forefront of light management technologies, globally recognized for its unrivaled expertise in advanced optical thin-film coatings. Powered by our proprietary VIAVI Linear Variable Filter technology, the MicroNIR™ family of spectrometers delivers fully integrated, ultra-compact NIR sensing solutions — bringing exceptional performance, precision, and portability to a wide range of applications.

MicroNIR Product Family

The MicroNIR family of spectrometers has set the standard for ultra-compact near-infrared sensing and analysis across multiple industries. Designed for reliability, affordability, and outstanding performance, MicroNIR spectrometers deliver exceptional ease of use while offering unmatched flexibility for installation, integration, and scaling of NIR spectroscopy solutions.

Their proven design enables the collection of real-time data and insights from processes or materials throughout distributed operations. This networked intelligence drives continuous optimization and improvement — empowering smarter, more efficient factories and farms.

Academy Information
Manzoni16
via Alessandro Manzoni 16 20900 Monza MB ITALIA

Price €2,000 before VAT for 3-day training (includes lunch, coffee/refreshment break)
Deadline for registration June 15th, 2026.

For more information about registration, please email or call our offices.

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E-mail: office@antech.ie

Central European Summer Time	30 June 2026	01 July 2026	02 July 2026
09:30 – 10:00	Welcome and Participant Introductions	NIRS for Quantification: Partial Least Square Regression	Development of Methods in MicroNIR Pro
10:00 – 10:30	Fundamentals of Near-Infrared Spectroscopy	**PLS in MicroNIR PRO Software**	**HANDS-ON SESSION** Real case studies
10:30 – 11:00	**Coffee Break**		
11:00 – 12:00	Introduction to MicroNIR Technology	NIRS for Classification: Partial Least Square Discriminant Analysis (PLS-DA)	**HANDS-ON SESSION** Real case studies
12:00-12:30	**SOFTWARE TRAINING:** Installation and Software Environment	**PLS-DA in MicroNIR PRO Software**	
12:30 – 14:00	**Lunch**		
14:00 – 15:00	NIRS for Exploratory analysis Principal Component Analysis	**Parallel Session: Process** Key PAT Applications with MicroNIR	**Parallel Session: Process** Sampling Strategies for Process Monitoring
		Parallel Session: Handheld Applications for Portable Instrumentation	**Parallel Session: Handheld** Sampling strategies for Off-line analysis
15:00 – 15:30	**PCA in MicroNIR PRO Software**	**Parallel Session: Process** NIRS for Process Monitoring Moving Block Methods	**Parallel Session: Process** OPC DA/UA and Spectrum Server
		Parallel Session: Handheld NIRS for RMID Spectral Match value	**Parallel Session: Handheld** Mobile Tech App and StrataSync
15:30 – 16:00	**Coffee Break**		
16:00 – 16:30	Performing Accurate Spectral Acquisitions	**Parallel Session: Process MBM in MicroNIR PRO Software**	Q&A
		Parallel Session: Handheld SMV in MicroNIR PRO Software	
17:00 – 17:30	**HANDS-ON SESSION** MicroNIR PRO Software	**HANDS-ON SESSION** Presentation of real case studies	

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