



RiTA OPERATOR ON LINE

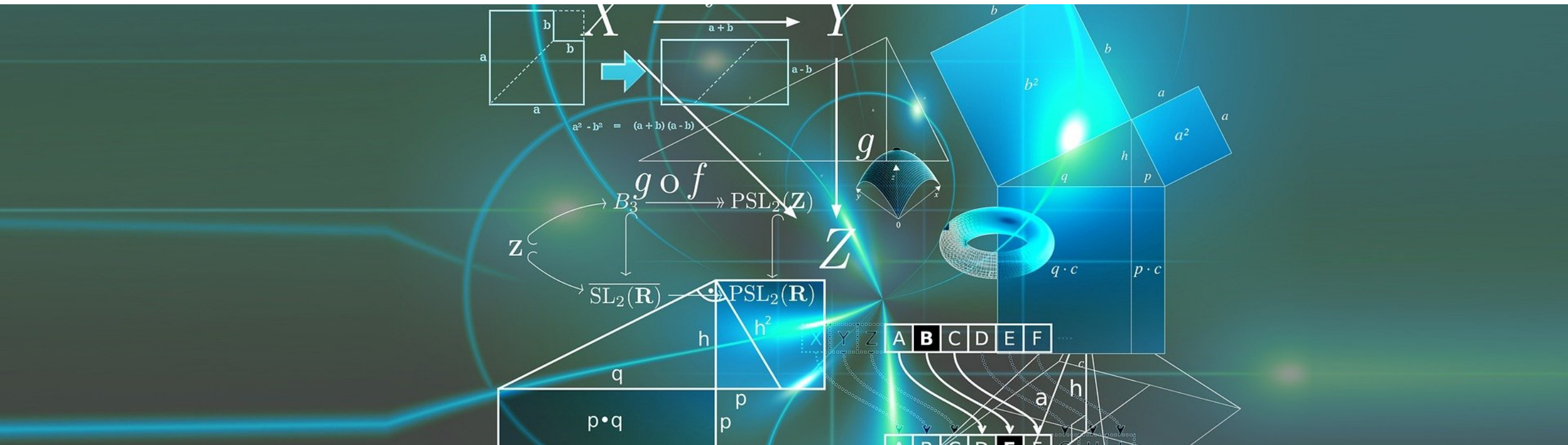
RiTA Operator on line

The RiTA© Operator course studies the concepts and functionalities of RiTA© software. It explores the differences of the programme and its applications, always associating theoretical concepts with practice.

At the end of the training, it allows the full use of all the functions and display modes to get the most out of the analyser, both in the field of work and in the didactic field. The combination of analysis and signal processing techniques allows the technician or system engineer to analyse large loudspeaker systems without the need to continuously generate a test signal, thus reducing acoustic fatigue.

All study modules are conducted live virtually and with interaction between the student and the teacher.

All sessions are recorded and shared privately with participants for study.



Agenda

FFT Analysis

- * Audio card configuration
 - Scheme
 - Sampling Rate
 - Devices
- * Time vs. frequency dominance
 - Single channel
 - Dual channel
- * Analysis Modes / Display Types
 - Spectrum
 - Transfer Function
 - Impulse response
- * Spectrum
 - FFT (Fast Fourier Transform)
 - Resolution
 - FIFO Averaging
 - Resolution Frequency and TC
- * Monitor Level
 - dBFS RMS / Peak
 - Signal to Noise Ratio
- * Signal Generator
 - ESS (Exponential Sine Sweep)
 - Pink Noise
 - Music
 - External Signal
- * Measurement engines
 - Channel management
 - Overwrite
- * Virtual DSP
 - Filters and Equalisation
 - Impulse import
 - Signal summing
 - Linearity and time invariance



Agenda

Transfer function

- * Configuration
 - Dual channel scheme
- * Transfer function
 - Convolution
 - Magnitude
 - Phase
- * Resolution per Octave
 - Fixed Point per Octave
 - Fixed FFT size
 - Smoothing
- * Impulse response
 - Linear
 - Logarithmic
 - ETC
- * Synchronisation
 - Find Delay
- * Coherence
 - Causal relationships
 - Non-causal relationships
 - Interpretation
 - Blanking Coherence
- * Memory Bank
 - Impulse Response
 - Snapshots
 - Spectrum RTA
- * Measurement Manager
 - Import / Export / Load / Save
- * Global Functions
 - Sum
 - Save All / Export All
 - AVG / Sync All
 - Clear DSP / Delays



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Auxiliar functions & Acoustic parameters

- * Spatial Averages
 - Scheme
 - Global synchronisation
 - Average pulse
 - Adjustment management
 - Processing
- * Averaging options
 - Complex Mode
 - Absolute Mode
 - dB mode
- * 1-channel measurements
 - Internal reference
 - Latency calculation
 - Check
- * Microphone calibration
 - File import
 - File creation
- * SPL Measurement
 - L-Time / L-Eq / Lmax / L peak
 - Peak factor
 - Interval time
 - A / C / Z weighting
- * Polar and Dispersion Pattern
 - Method
 - Pulse Import
 - Resolution
- * Acoustic parameters
 - IR Linear / Log / ETC
 - IR Spectrogram
 - T30 / T20 / EDT
 - C50 / C80
 - ITDG (Initial Time Delay Gap)



Agenda

Exercices

- *Measurement of a Digital processor
 - Linearity check
 - Testing invariance
- *Measuring the response of a loudspeaker
 - Adjusting Levels
 - Equalisation
 - Filtering
- *PA / SB Tuning
 - Frequency Response
 - Relative Amplitude
 - Relative Phase
 - Polarity and relative phase
- *Spatial averaging optimisation
 - Absolute Synchronization
 - pulse averaging
 - Processing
 - checking



RiTA Operator on line

The duration of the course is 5 days / 3 hours per day live and with teacher-student interaction using the zoom platform.

Timetable: 17:00h Central European Time (CET) see [calendar](#)

Each block begins with a theoretical explanation of the content to be covered, exercises and questions at the end of the course.

All participants who do not have an official RiTA© software licence will be provided with an educational version free of charge (the educational version allows to follow efficiently all the exercises proposed during the course, but does not allow to perform real measurements).

At the end of each day, the video of the session is shared with the participants.

Price of the course:

- Full course: 156€.
- Complete course + RiTA software: 336€.

The payment method is through the website by credit card, bank transfer or PayPal.

For any questions or queries please contact Global Audio Solutions at the following email address: info@gudiosolutions.com



Calendar

11/03/24	12/03/24	13/03/24	14/03/24	15/03/24	16/03/24	17/03/24
18/03/2024 BLOQUE 1 17:00h	19/03/2024 BLOQUE 2 17:00h	20/03/2024 BLOQUE 3 17:00h	21/03/2024 BLOQUE 4 17:00h	22/03/2024 REPASO 17:00h	23/03/24	24/03/24
25/03/24	26/03/24	27/03/24	28/03/24	29/03/24	30/03/24	31/03/24