High-Speed Digital class using Keysight ADS software

Date: Sunday, 3rd March 2024

Venue: Digital University Kerala.

RFMW (Radio Frequency & Microwave) Design

As radio-frequency (RF) applications move into millimeter-wave (mmWave) frequencies, integration is becoming denser. This density increases the complexity of correctly assembling, simulating, and verifying multi-technology RF modules.

Unlock the potential of wireless communication systems with an understanding of RFMW design, a critical aspect for optimizing performance. Join our upcoming technical workshop where we delve into the significance of RFMW design, covering aspects such as frequency optimization, signal integrity, interference reduction, and efficient power consumption. Explore how effective RFMW design extends the range and coverage of wireless systems, ensuring compliance with industry standards and regulations. Don't miss this opportunity to enhance your knowledge and skills in RFMW design for cutting-edge applications in radio frequency and microwave technology.

Software used: Keysight Pathwave ADS v2024

Venue: Digital University, Trivandrum.

Timings: 9:30 AM to 4:00 PM

Hands-on workshop (License will be provided. Kindly bring laptop.)

Registration Fees: Free

Duration: 1 day

Registration Link: REGISTER HERE

Audience

Technical staff who work in an RF or microwave design environment and want a comprehensive introduction to the application of ADS

RF Designers, RFIC Designers, MMIC Designers, Industry Professionals, Wireless Technology Enthusiasts. Researchers

Prerequisites

Familiarity with basic RF and microwave concepts. Windows and PC experience.

Topics covered:

- Schematic capture, system and circuit components, Sub-circuits
- Symbols and Dynamic Model Selection
- Basics of Sources, Terminations, and Variables
- Simulation basics: DC, AC, S-Parameter, Harmonic Balance
- Plotting data for DC, S-Parameter, HB
- Using Examples Transient
- Plotting data for DC, S-Parameter, HB using Examples
- Transient.
- RF Layout design
- Post-Layout EM extraction
- Convert layouts into EM simulation models using the unified GUI for Momentum and FEM.
- Apply MomRF & coarse model techniques to perform highly efficient, perturbational optimizations.
- Build EM Components from physical models for circuit cosimulation.
- Simulate antennas and compute their properties such as gain and far fields.

For any further queries, contact:

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