

DELTA-SIGMA DATA CONVERTERS

JUNE 9-20, 2025

On-Line Course using Microsoft TEAMS



WEEK 1	JUNE 9-13, 2025	10 Modules (1:30hr each), 2 Modules per day		
WEEK 2	JUNE 16-20, 2025	10 Modules (1:30hr each), 2 Modules per day		
DAILY	Central European Time	Eastern Standard Time	Pacific Standard Time	India Standard Time
	CET	EST	PST	IST
Module 1	3:00-4:30 pm	9:00-10:30 am	6:00-7:30 am	6:30-8:00 pm
Module 2	5:00-6:30 pm	11:00 am -12:30 pm	8:00-9:30 am	8:30-10:00 pm
WEEK 1	Module			
DAY 1, Mon. June 9	1 & 2	Delta Sigma Converter Basics – Parts A & B (Module 1 + 2)		Shanthi Pavan
DAY 2, Tue. June 10	3 & 4	Delta Sigma Converter Basics – Parts C & D (Module 1 + 2)		Shanthi Pavan
DAY 3, Wed. June 11	5	Delta Sigma Converter Basics – Part E (Module 1)		Shanthi Pavan
	6	High-Level Design of CT-Delta Sigma Modulators (Module 2)		Shanthi Pavan
DAY 4, Thu. June 12	7	Discrete-Time Delta Sigma Design		David Johns
	8	Incremental and Sensor ADCs		David Johns
DAY 5, Fri. June 13	9 & 10	Low-Power Opamp Design		David Johns
WEEK 2	Module			
DAY 6, Mon. June 16	11	Circuit Techniques to Mitigate Flicker Noise in CTDS Modulators		Shanthi Pavan
	12	Non-Idealities in Continuous-Time DS Modulators (Module 1)		Shanthi Pavan
DAY 7, Tue. June 17	13	Design of Building Blocks for CTDSM Modulators - part 1 (Module 1)		Shanthi Pavan
	14	Design of Building Blocks for CTDSM Modulators - part 2 (Module 2)		Shanthi Pavan
DAY 8, Wed. June 18	15	Systematic Design Centering of a Practical CTDSM (Module 1)		Shanthi Pavan
	16	FIR feedback in CTDSMs (Module 2)		Shanthi Pavan
DAY 9, Thu. June 19	17	Introduction to Dynamic Element Matching and Calibration		Shanthi Pavan
	18	Cascaded Continuous-Time Delta-Sigma Converters		Shanthi Pavan
DAY 10, Fri. June 20	19	Case Studies : Part 1		Shanthi Pavan
	20	Case Studies : Part 2		Shanthi Pavan