



Delta-Sigma Data Converters

ON-LINE CLASS by Microsoft TEAMS

July 5-16, 2021

WEEK 1		JULY 5-9, 2021	8 Modules (1:30hr each), 2 Modules per day		
WEEK 2		JULY 12-16, 2021	8 Modules (1:30hr each), 2 Modules per day		
DAILY	Central European Time CET	Eastern Standard Time EST	Pacific Standard Time PST	India Standard Time 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				
Monday, July 5	1&2	Delta Sigma Converter Basics – Parts A & B			Shanthy Pavan
Tuesday, July 6	1&2	Delta Sigma Converter Basics – Parts C & D			Shanthy Pavan
Wednesday, July 7	1	Delta Sigma Converter Basics – Part E			Shanthy Pavan
	2	High-Level Design of CT-Delta Sigma Modulators			Shanthy Pavan
Thursday, July 8	1	Discrete-Time Delta Sigma Design			David Johns
	2	Introduction to the Delta Sigma Toolbox			David Johns
Friday, July 9	1	Bandpass Delta Sigma ADCs			David Johns
	2	Incremental and Sensor ADCs			David Johns
WEEK 2	Module				
Monday, July 12	1	Non-Idealities in Continuous-Time DS Modulators			Shanthy Pavan
	2	Design of Building Blocks for CTDSM Modulators - Part 1			Shanthy Pavan
Tuesday, July 13	1	Design of Building Blocks for CTDSM Modulators - Part 2			Shanthy Pavan
	2	Systematic Design Centering of a Practical CTDSM			Shanthy Pavan
Wednesday, July 14	1	Circuit Techniques to Mitigate Flicker Noise in CTDS Modulators			Shanthy Pavan
	2	FIR feedback in CTDSMs			Shanthy Pavan
Thursday, July 15	1	Introduction to Dynamic Element Matching and Calibration			Shanthy Pavan
	2	Cascaded Continuous-Time Delta-Sigma Converters			Shanthy Pavan
Friday, July 16	1	Case Studies : Part 1			Shanthy Pavan
	2	Case Studies : Part 2			Shanthy Pavan