



POWER MANAGEMENT

ON-LINE COURSE

August 28 - September 8, 2023

WEEK 1		AUG 28 -SEPT 1			
WEEK 2		SEPT 4-8			
DAILY	Central European Time		Eastern Standard Time	Pacific Standard Time	India Standard Time
	CET (Lausanne)		EST (New York)	PST (California)	IST (India)
<i>Module 1</i>	3:00-4:30 pm		9:00-10:30 am	6:00-7:30 am	6:30-8:00 pm
<i>Module 2</i>	5:00-6:30 pm		11:00 am -12:30 pm	8:00-9:30 am	8:30-10:00 pm
WEEK 1	<i>Module</i>				
Monday August 28	1	Fundamentals of SC Converters and Topologies			Filip Tavernier
	2	Analysis and Modeling of SC Converters			Filip Tavernier
Tuesday August 29	1	Power Stages			Bernhard Wicht
	2	Gate Drivers and Protection			Bernhard Wicht
Wednesday, August 30	1	GaN Drivers and Circuit Design			Bernhard Wicht
	2	Charge Pumps			Bernhard Wicht
Thursday, August 31	1	Fundamentals of Inductive DC-DC Converters			Bernhard Wicht
	2	Hybrid Converters			Bernhard Wicht
Friday September 1	1	Interference and PSRR			Michiel Steyaert
	2	Bandgap Voltage References			Michiel Steyaert
WEEK 2	<i>Module</i>				
Monday, September 4	1	Fundamentals of Linear Regulators			Pavan Hanumolu
	2	LED Drivers Design			Pavan Hanumolu
Tuesday, September 5	1	Digitally Controlled DC-DC Converters			Pavan Hanumolu
	2	Time-Based Control of DC-DC Converters			Pavan Hanumolu
Wednesday, September 6	1&2	DC-DC: From Discrete To Fully CMOS Integrated			Michiel Steyaert
Thursday, September 7	1	Practical Techniques of Frequency Compensation			Vadim Ivanov
	2	Design of LDO's with Instant Load Regulation & Unconditional Stability			Vadim Ivanov
Friday, September 8	1	Circuit Techniques for Integrated Switching Regulation			Vadim Ivanov
	2	Nanopower Design Techniques and Efficient Energy Harvesting			Vadim Ivanov