



# Basics of RF Design

**ON-LINE CLASS by Microsoft TEAMS**

**May 8-19, 2023**

<b>WEEK 1</b>	<b>MAY 8-12, 2023</b>			
<b>WEEK 2</b>	<b>MAY 15-19, 2023</b>			
<b>DAILY</b>	Central European Time	Eastern Standard Time	Pacific Standard Time	India Standard Time
	<b>CET (Lausanne)</b>	<b>EST (New York)</b>	<b>PST (California)</b>	<b>IST (India)</b>
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
<b>WEEK 1</b>	<i>Module</i>			
Monday, May 8	1	Introduction to Wireless RX and TX		Antonio Liscidini
	2	Low Noise Amplifiers		Antonio Liscidini
Tuesday, May 9	1	Frequency Generation		Antonio Liscidini
	2	PLL Overview		Antonio Liscidini
Wednesday, May 10	1	Mixers, Base-Band Filters		Antonio Liscidini
	2	Base-Band Filters		Antonio Liscidini
Thursday, May 11	1	Receiver Architectures, Design Considerations		Antonio Liscidini
	2	Transmitter Architectures, Design Considerations		Antonio Liscidini
Friday, May 12	1	Microwave Circuit Design: Two-Port Parameters		Patrick Reynaert
	2	Microwave Circuit Design: Smith Chart and Impedance Conversion		Patrick Reynaert
<b>WEEK 2</b>	<i>Module</i>			
Monday, May 15	1	Microwave Circuit Design: Matching and Gain		Patrick Reynaert
	2	Microwave Circuit Design: Stability Consideration		Patrick Reynaert
Tuesday, May 16	1	Microwave Circuit Design: Distortion		Hua Wang
	2	Microwave Circuit Design: Noise		Hua Wang
Wednesday, May 17	1	Power Amplifier Basics		Hua Wang
	2	Power Amplifier Classes		Hua Wang
Thursday, May 18	1	Power Amplifier Architectures		Hua Wang
	2	Power Amplifier Design Examples and Practical Considerations		Hua Wang
Friday, May 19	1	Antenna Arrays, Beamforming, and Antenna Interfacing (I)		Hua Wang
	2	Antenna Arrays, Beamforming, and Antenna Interfacing (II)		Hua Wang