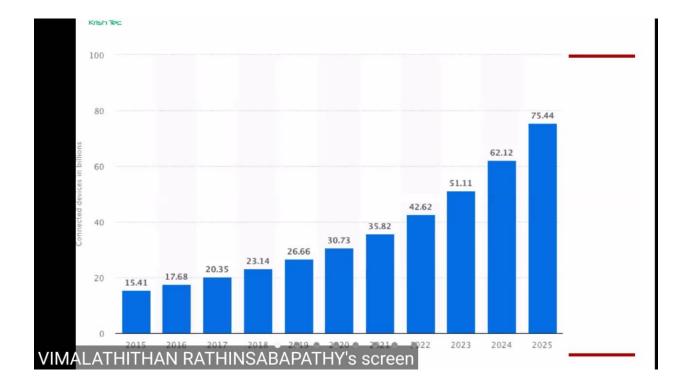
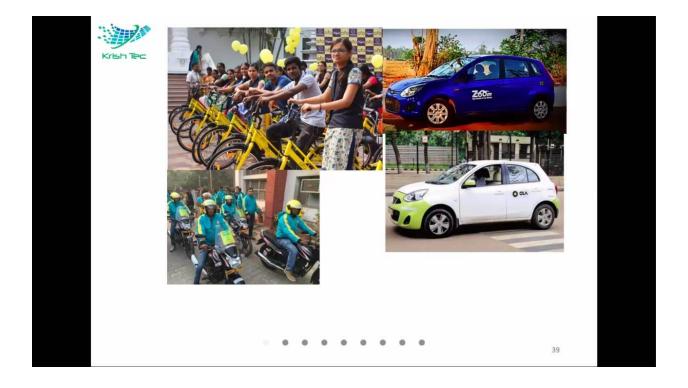
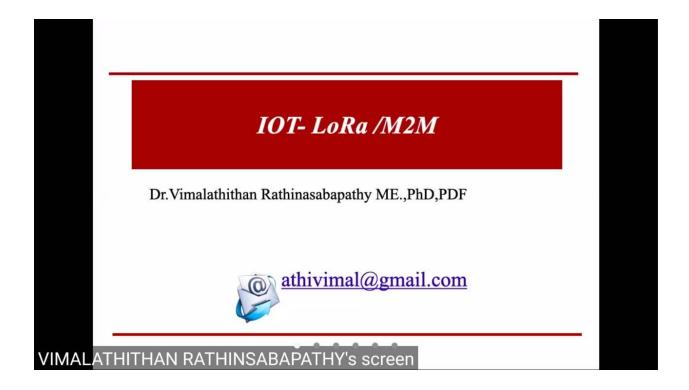
LoRA for Smart Cities, Dr. R.Vimalathithan, Senior Software Engineer, Bosch (ANCIT), Bangalore Date : 24.04.2020, 3 PM

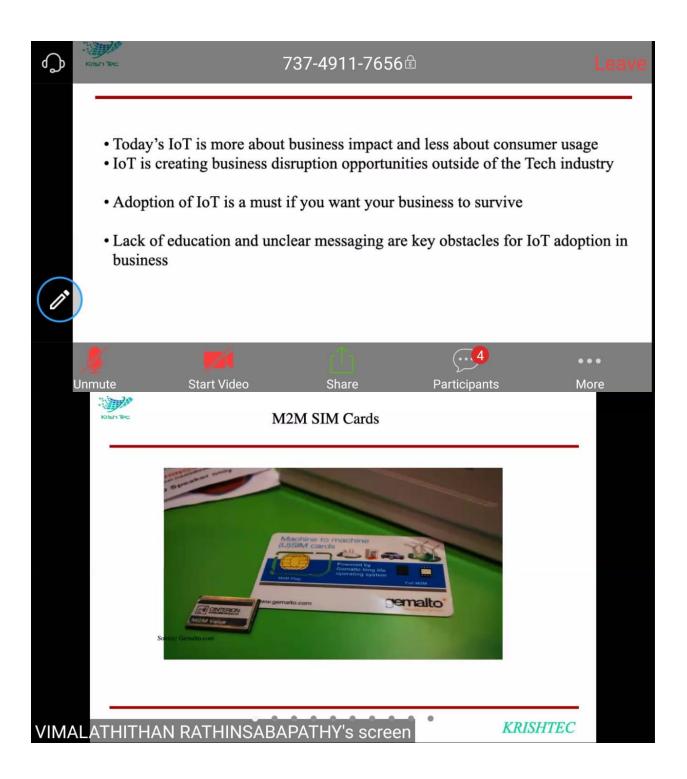


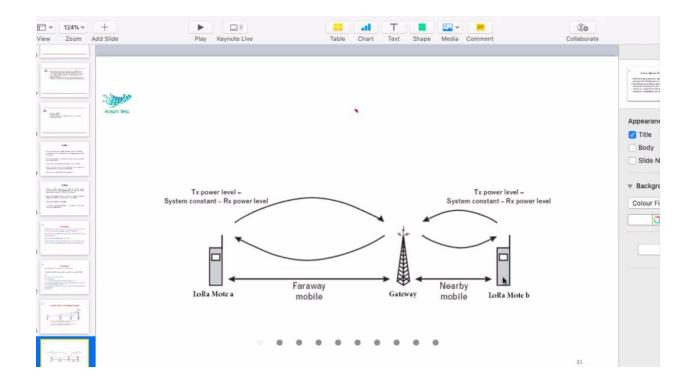
Department of ECE organized a webinar on "LoRA for Smart Cities" by Dr.R.Vimalathithan, Senior Software Engineer, Bosch (ANCIT), Bangalore. He shared his views on basics of modulation and how to compute to bandwidth. He dealt the basics of LoRA and LoRAWAN. He demonstrated how a LoRA and device can be connected and method of forming LoRAWAN. Vending machine application was explained.











interation field			ClearLo
N Module 0 🗵	▼ Module Features	▼ Transceiver Communication	15:34:45.45U > 0K
	Radio Parameters	▼ Transmit	15:34:46.451 > radio set rxbw 25 15:34:46.459 > ok
	Output Tx Power: 15  Gauss BT: 0.5	Issue Transmit: Send	15:34:46.462 > radio set afcbw 41.7 15:34:46.501 > ok 15:34:46.502 > radio set bt 0.5
	LoRa Bandwidth: 5 🔻 CRC Enable: 🗸	Enter Data	15:34:46.509 > ck 15:34:46.509 > ck 15:34:46.509 > radio set cr 4/5
	Rx Bandwidth: 2	Attempts: Attempts (Tran 15:34:46.516 > ok 15:34:46.517 > radio set mod lora	
	AFC Bandwidth: 2 T Mod Mode: Icra T		15:34:46.525 > ck 15:34:46.525 > radio set sf sf12 15:34:46.532 > ck 15:34:55.843 > radio set pwr -3
	Frequency: T868100000 Invert IQ Enable:	▼ Receive	
	Frequency Deviation: 25000 WatchDog Timer: 15000	Window Length:         Rx Window           Begin Listen:         Liste           Note*:         Infinition           Note*:         Infinition	
	(G)FSK BitRate: 50000 Spreading Factor: sf12 -		
	Preamble Length: 8 Radio Sync Word: 0x34		
	Module Voltage: 3368 Serial Noise Ratio (SNR): -128	Infinate Listen Receive Win	15:37:16:211 > radio set by 500 15:37:16:218 > ok 15:37:20.748 > radio set rxby 250 15:37:20.755 > ok 15:37:22.064 > radio set afcby 250
	▼ GPIO Control		
			15:37:22.072 > ok
	General Console		
			ClearLo
	RN2483 1.0.1 Dec 15 2015 09:38:09 created		