

Kalchuri Nagar, Raisen Road, P.O- Kolua, Bhopal - 462022 (M.P)

Department of Electronics and Communication Engineering LNCTS Bhopal

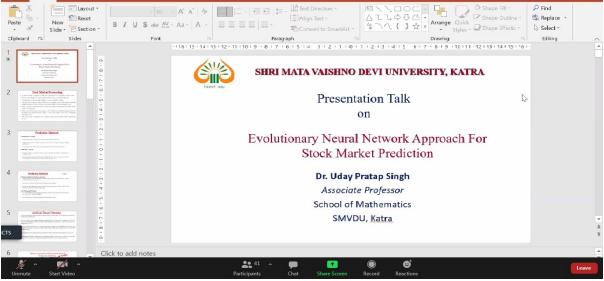
Publicity Report of February 2021

• International Conference on "Soft computing techniques & Communication Engineering" is organised by Department of EC of LNCT Group of Colleges on 30-01-2021.Participants from LNCT Group(Faculties, Students) & outside has participated and presented their research paper. Conference had been successfully completed under the guidance of Dr. Soheb Munir (HOD, EC-LNCTS) coordinated by Dr. Aparna Gupta (Professor).



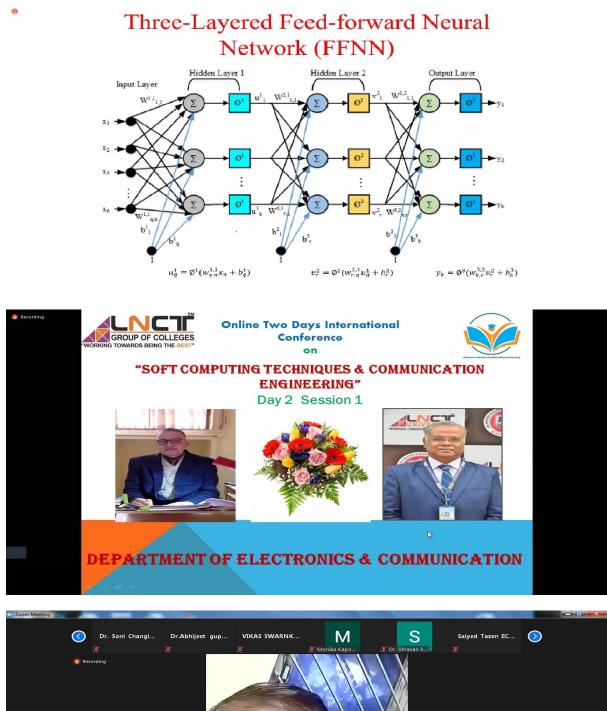








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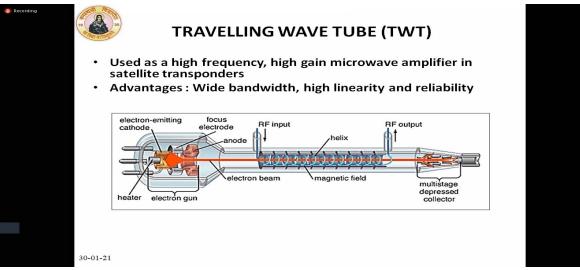
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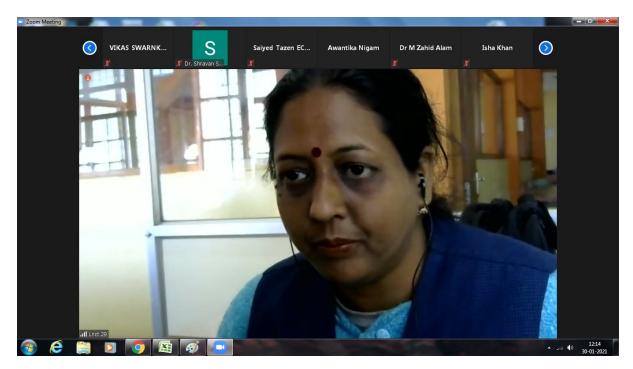


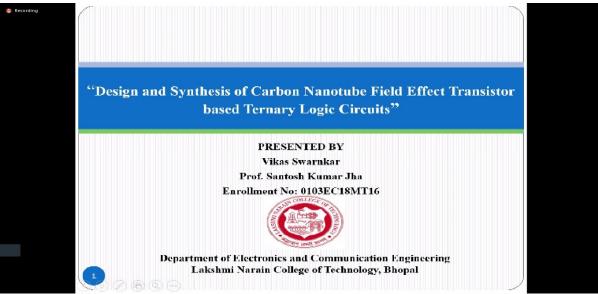














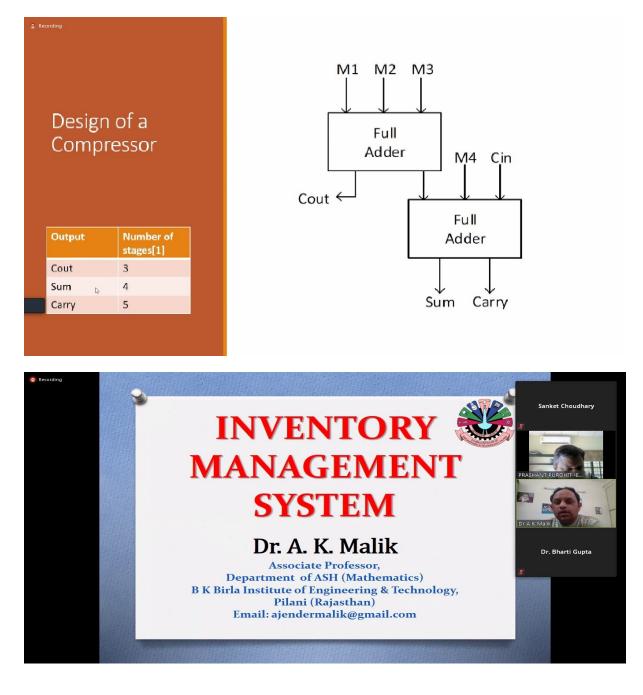
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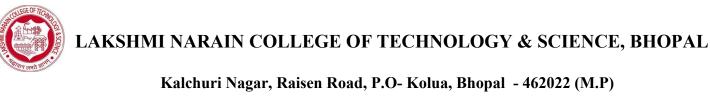


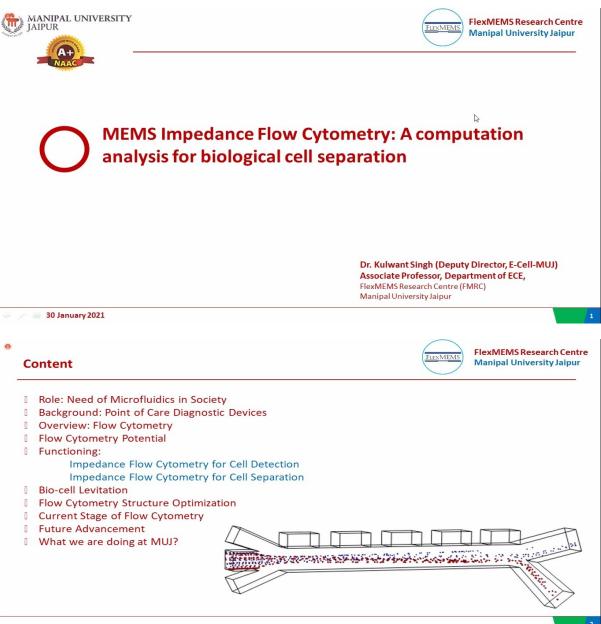
What is 5G TECHNOLOGY?

5G technology represents the "Fifth-generation" in a field of wireless communication network. It is promises decreased latency, high speeds, and a more associated environment friendly. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks. 5G enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

5G wireless technology is meant to deliver higher multi-Gbps peak data speeds, ultra-low latency, more reliability, massive network capacity, increased availability, and a more uniform user experience to more users. Higher performance and improved efficiency empower new user experiences and connects new industries like pharmaceutical industry. The 5G technology is a paradigm shift because it is not only about a network. Instead, it is about an ecosystem of devices and sensors which can be intelligently connected in order to overhaul business and economic policy.









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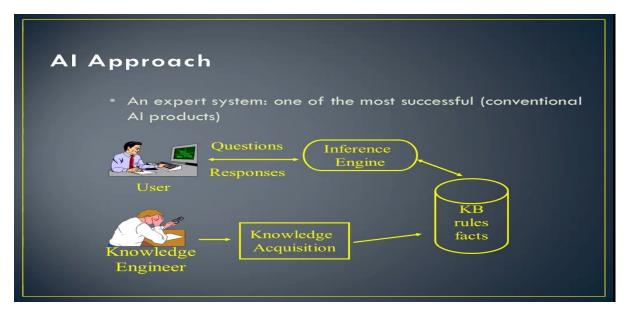
Movement of Cel	l in Fluid with Influence	of Electric Field Dielectrophoresis	
CASE-I: $\epsilon_{cell} < \epsilon_{medium}$		DEP force was first explored by researche 1958) and can mathematically expressed	
•	Cell moves away fron electrodes (Weaker Electric Field)	$\langle F_{\rm DEP}\rangle=2\pi\varepsilon_{\rm m}{\rm R}^3{\rm Re}[{\rm CM}^*]{\it V} E_{\rm rms} ^2$ Here:	(1)
CASE-II $\epsilon_{cell} > \epsilon$	medium Cell moves towards electrodes (Stronger Electric Field)	R= Radius of the cell/particle $\varepsilon_{\rm m}$ = Medium permittivity [CM*] = Clausius Mossotti factor E _{rms} ² = RMS value of electric field CM* = $\left(\frac{\varepsilon_{\rm p}^* - \varepsilon_{\rm m}^*}{\varepsilon_{\rm s}^* + 2\varepsilon_{\rm m}^*}\right)$	$\varepsilon_{p}^{*} = \text{Complex permittivity of particle}$ $\varepsilon_{m}^{*} = \text{Medium permittivity of medium}$ $\varepsilon_{p}^{*} = \varepsilon_{p} - i \frac{\sigma_{p}}{\omega}$ $\varepsilon_{m}^{*} = \varepsilon_{m} - i \frac{\sigma_{m}}{\omega}$

What is Soft Computing?

- Soft Computing is a field that currently includes
- Fuzzy Logic
- Neural Networks
- Probabilistic Reasoning(Genetic Algorithms and Evolutionary computing etc.)
- Other related methodologies
- Soft Computing combines knowledge, techniques, and methodologies from the sources above to create intelligent systems.



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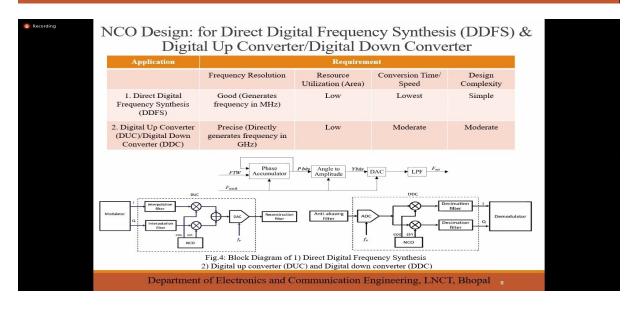
Introduction: Numerically Control Oscillator

- Generates a discrete-time, discrete-value form of any waveform (sinusoidal signal)
- Tuneable digital frequency generator: takes source frequency (f_{ref}) as input and outputs digitized sinusoid signal (f_{out}) .
- Frequency can be tuned by a frequency control word register(FCW)
- Table.1 :NCO Advantages over other analog methods:

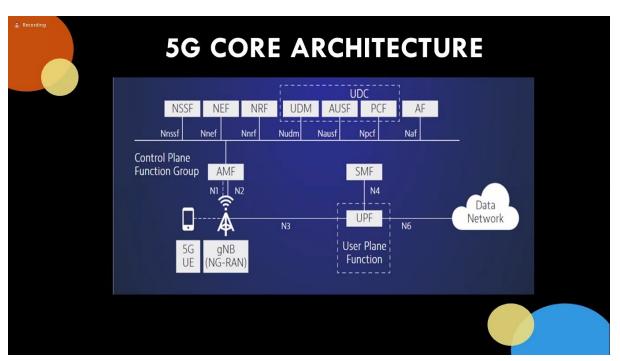
Parameters	Numerical Control Oscillator	Analog Oscillator
1. Size	Small Area	Bulky in nature
2. Power Consumption	Low	High
3. Frequency and Phase Tunablity	Precise control is possible	Precise control is not possible

 Applications: 1. Aerospace 2. Mobile communications 3. Satellite Communication 5. Function Generators and 6. Radio Receivers

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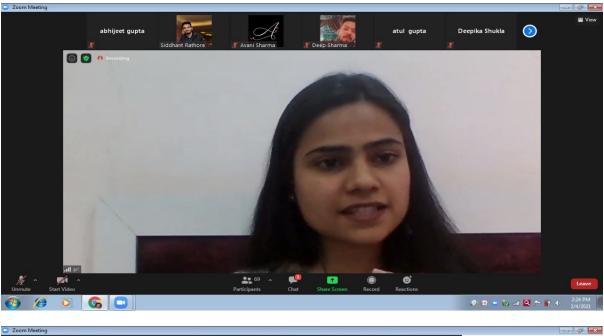
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• EC department LNCTS has organized an Interaction program for EC 3rd sem students with placed students (Mr. Siddhant Rathore and Ms. Ariba Mev) on 04-02-2021 from 2:00 to 3:00 PM. These placed students have shared their experiences during process of selection under various levels such as how to make resume, how to improve soft skills. Placed students also have satisfied all queries of upcoming aspirants to be placed for the campus placement. The session had been successfully completed under the guidance of Dr. SohebMunir (HOD, EC-LNCTS) coordinated by Prof. Niketan Mishra (Assistant Professor).



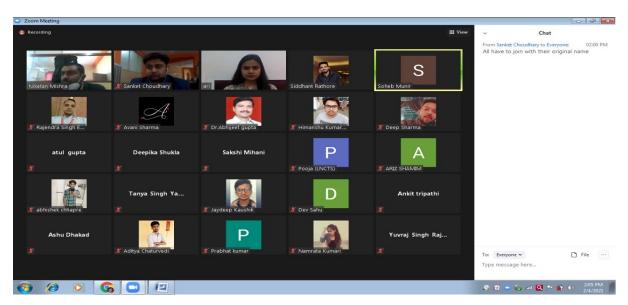














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 EC department LNCTS has organized an Interaction program for EC 3rd sem students with placed students (Ms. Karthika Raj, Mr. Md. Taqui Siddiqui, Mr. Shashank Acharya and Mr. Satyam Shashank) on 04-02-2021 from 1:00 to 2:00PM. These placed students have shared their experiences during process of selection under various levels such as how to make resume, how to improve soft skills. Placed students also have satisfied all queries of upcoming aspirants to be placed for the campus placement. The session had been successfully completed under the guidance of Dr. Soheb Munir (HOD, EC-LNCTS) coordinated by and Prof. Ayush Johari (Assistant Professor).



