



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

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Report

online webinar on “**Talk On Nano Technology**”. This webinar is organized by IEEE Nano Technology Society, Department of ECE, KLEF from 23-may-2023.

IEEE NANO TECHNOLOGY
MAY 23
2023
TALK ON
NANOTECHNOLOGY

Dr.santhosh sivasubramani
Founding Chair - IEEE NTC Hyderabad Section Chapter
Vice Chair - IEEE NTCYP R10

Event Coordinator: Joswitha Sindhu | SB Vice_Chairperson

Dr. M Suman
Chairperson
HOD ECE - KLEF

Dr. K. Srinivasa Rao
Professor, Head of MEMS research Group,
Dept. of ECE, KLEF
Faculty Advisor for IEEE TNANO SBC KLEF

23rd MAY | 11:00 AM

[/IEEE Nanotechnology,KL University](#) | /ieeenanotechnologyklu@gmail.com | [/ieee_nanotechnology_klu](#)

1. Introduction:

The online webinar titled "Talk on Nanotechnology" was organized by the IEEE Nanotechnology Society in collaboration with the Department of Electronics and Communication Engineering (ECE) at KLEF. This webinar aimed to explore the advancements, applications, and potential of nanotechnology in various fields.

2. Objectives:

- ✓ To provide insights into the fundamentals and recent developments in nanotechnology.
- ✓ To discuss the applications and implications of nanotechnology across different industries.
- ✓ To foster discussions and knowledge exchange among participants interested in nanotechnology.

3. Agenda:

- ✓ Welcome Address by the Organizers
- ✓ Keynote Speech on "Fundamentals and Recent Advances in Nanotechnology"
- ✓ Presentation Sessions on Specific Applications (e.g., Nanoelectronics, Nanomedicine, Nanomaterials)
- ✓ Panel Discussion on "Challenges and Future Directions in Nanotechnology"

The screenshot displays a presentation slide titled "Float-Gate (FG) and Gate-Defined (GD) MOST". The slide content includes:

- Text:**
 - Gate surrounded by SiO_2 layer
 - MIFG configuration \rightarrow Scaling of threshold voltage
 - rail-rail signal swing
 - Use of capacitance C_{bias}
- Circuit Diagram:** A schematic of a multi-input FG MOST showing a PMOS and NMOS with various gates and capacitances (C_{top} , C_{bias} , C_{sp} , C_{cp}) and bias voltages (V_1 , V_2 , V_3 , V_{bias} , V_{dr} , V_{in} , V_{dc}).
- Graph:** A plot of drain current I_D (A) versus gate voltage V_{GS} or V_{BS} (V). The graph compares the I_D of GD MOST (black curve) and FG MOST (red curve). The FG MOST shows a higher I_D for the same gate voltage.
- Handwritten Notes:** Red ink annotations on the slide, including "Float-Gate" and "GD MOST", and circuit diagrams illustrating the biasing and gate configurations.

The meeting interface shows the following participants:

ID	Name
170040027	
170040073	
170040079	Karthik
170040140	CHAVA MANISAI
170040433	
170040579	Tharun Sai
170040637	o.sanjeev kumar
170040761	
	Dr. Shasanka Sekhar Rout
	G. Shanthi
	Shaik shoukat Vali

Screenshot of the online Meeting

4. Highlights:

- ✓ The webinar commenced with a warm welcome from the organizers, expressing appreciation to the participants and speakers for their involvement in the event.
- ✓ The keynote speech provided an overview of the fundamentals of nanotechnology, recent breakthroughs, and emerging trends, setting the stage for further discussions.
- ✓ Presentation sessions delved into specific applications of nanotechnology, such as nanoelectronics for faster and smaller devices, nanomedicine for targeted drug delivery, and nanomaterials for improved performance in various industries.
- ✓ The panel discussion brought together experts from academia and industry to address challenges in nanotechnology, such as scalability, safety, and ethical considerations, while also discussing future directions and opportunities.

5. Feedback:

- ✓ Positive feedback from participants regarding the webinar's content, speakers' expertise, and organization.
- ✓ Suggestions for future webinars or topics within the realm of nanotechnology.

6. Conclusion:

The online webinar on "Talk on Nanotechnology," organized by the IEEE Nanotechnology Society in collaboration with the Department of ECE, KLEF, provided attendees with valuable insights into the fundamentals, applications, and challenges of nanotechnology. The event facilitated meaningful discussions and knowledge exchange, highlighting the potential of nanotechnology to revolutionize various industries and address global challenges.



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7. Participants List

S.No.	University ID	Student Name	Degree
1.	2100040002	AMMINENI AJAY	ECE
2.	2100040003	AMMIREDDY YOSHITHA	ECE
3.	2100040005	BORRA DEVI HARSHITHA	ECE
4.	2100040008	BHEEMISSETTI SRIRAM	ECE
5.	2100040009	CHEEMAKURTHI ANNAPURNA	ECE
6.	2100040010	CHILAKAPATI LAKSHMIKANTHCHARY	ECE
7.	2100040022	MACHERLA DURGA SAI DEEPAK	ECE
8.	2100040023	MALLINENI SREE THULASI	ECE
9.	2100040025	NARAYANAMANTRI SAI CHARAN MANIKANTA	ECE
10.	2100040031	DAROORI SRIBRINDA	ECE
11.	2100040034	SRI LASYA PRIYA BHATTIPROLU	ECE
12.	2100040035	TASLEEM .	ECE
13.	2100040037	SEELAM VYSHNAVI	ECE
14.	2100040039	KANAGALA NARENDRA	ECE
15.	2100040041	SAMPATHI ROHINI	ECE
16.	2100040042	CHINTAGUNTLA SATISH KUMAR	ECE
17.	2100040043	TADIBOYINA PRUDHVI	ECE
18.	2100040046	MURARI SRI HARI	ECE
19.	2100040048	SUNKARA VAMSI KIRAN	ECE
20.	2100040051	VUYYURU RAMTEJ	ECE
21.	2100040054	SALAKA JAYA LAKSHMI MAHESWARI	ECE
22.	2100040057	RAJAPANTULA MANYA PRANATHI	ECE
23.	2100040058	KARNAKOLA DIVYA SRI	ECE
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25.	2100040090	SHAIK ARSHAD KAREEM	ECE
26.	2100040098	RACHAMSETTY SOMASEKHAR DHANAKOTI NAGALIAH	ECE
27.	2100040105	ASIF ARFANI SHAIK	ECE
28.	2100040120	KANDRU RADHA KRISHNA	ECE
29.	2100040127	MIRIAM REDDY NARENDRA	ECE
30.	2100040133	METTU SRINIVASA REDDY	ECE
31.	2100040161	NAYANI HARSHITHA	ECE
32.	2100040166	CHALLA NITHIN	ECE
33.	2100040168	KURRA NAVEEN	ECE
34.	2100040185	GADELA SREEJA	ECE
35.	2100040199	TUMULURI JAGADEESH	ECE
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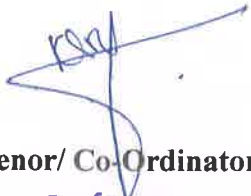
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44.	2100040258	VENIGANDLA BHARGAVI	ECE
45.	2100040280	THOTA GANESH KUMAR	ECE
46.	2100040292	SIMHADRI SAI RAM	ECE
47.	2100040309	DIRISALA SURYA TEJA	ECE
48.	2100040322	SANDU SAI HARISWARI	ECE
49.	2100040323	JONNALAGADDA HEMANTH	ECE
50.	2100040338	SHAIK MOHAMMED ABDUL ROUF	ECE
51.	2100040344	CHOPPARAPU HEMANTH NAG	ECE
52.	2100040350	KANCHARLA DEEPIKA	ECE
53.	2100040353	NUNE SUSHMA	ECE
54.	2100040365	DEVANA SASIKANTH	ECE
55.	2100040368	RACHAMALLU YASASH CHANDRA REDDY	ECE
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