

Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet.
Affiliated to Bharathiar University
Accredited at *A*⁺ Grade by NAAC (Fourth Cycle)
An ISO 9001:2015 Certified Institution
Udumalpet, Tamilnadu.

DEPARTMENT OF PHYSICS

Workshop organized during 2020-2021

2020-2021			
Date	Topic	Details of Resource Person	No. of Beneficiaries
29.05.2020	Figment of Imagination in Physics Via Simulation	Dr. Raju Panthagani Associate Professor of Physics Geethanjali College of Engineering and Technology (GCET), Cheeryal Keesara Hyderabad.	250 students from B.Sc & M.Sc Physics, Sri GVG Visalakshi College and from various institutions.
30.05.2020		Dr.J.Shankar Professor of Physics Geethanjali College of Engineering and Technology (GCET), Cheeryal Keesara Hyderabad.	250 students from B.Sc & M.Sc Physics, Sri GVG Visalakshi College and from various institutions.

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Udumalpet -642 128, Tamilnadu



**Department of Physics
Organizes**

**National Webinar on
Figment of Imagination in Physics Via Simulations**



DR. RAJU PANTHAGANI
Associate Professor of Physics
Geethanjali College of
Engineering and Technology
(GCET), Cheeryal
Keesara 501301, Hyderabad

Date:29/05/2020 Time: 1:30 PM



DR J. SHANKAR
Professor of Physics
Geethanjali College of
Engineering and Technology
(GCET), Cheeryal
Keesara 501301, Hyderabad

Date:30/05/2020 Time: 1:30 PM

Registration Link: https://docs.google.com/forms/d/e/1FAIpQLSecFisioN6yxsPr9ZYHOIS6vSyGkOEZ_93S2W5aHKLWdiP9yg/viewform?vc=0&c=0&w=1

National Webinar organised during Covid-19 Pandemic Period

Date: 29.05.2020 & 30.05.2020
platform: Zoom

National Webinar on "Figmnetation of Imagination in Physics Via Simulations" was organised by the department for 2 days 29th & 30th May 2020. Dr. Raju Pathangani and Dr. J. Shankar from Geethanjali College of Engineering and Technology, Hyderabad demonstrated how to use Tinker cad software for creating circuit design. They explained with Simulations about Hall effect experiment, Zener diode characteristics, field along the axis of the coil, Acceptance angle and Numerical aperture of an optical fiber, FET characteristics.

More than 250 students and the faculty members from various institutions participated and benefited. The participants interacted with the resource persons and clarified their doubt.

S. Aram
Department Coordinator

B. Nirmala
HOD

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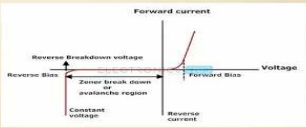
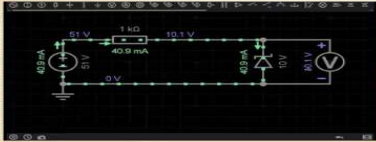
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Recording

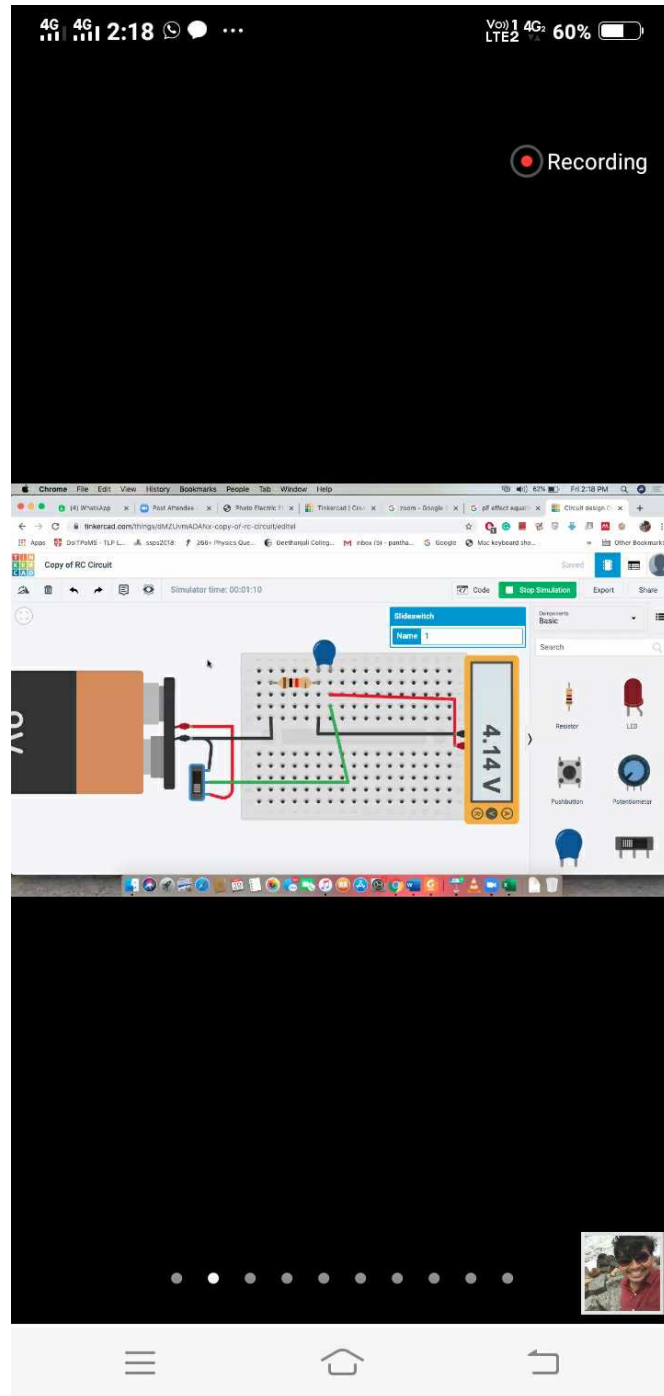
Zenar Diode Experiment

1. Simulation using Vlabs

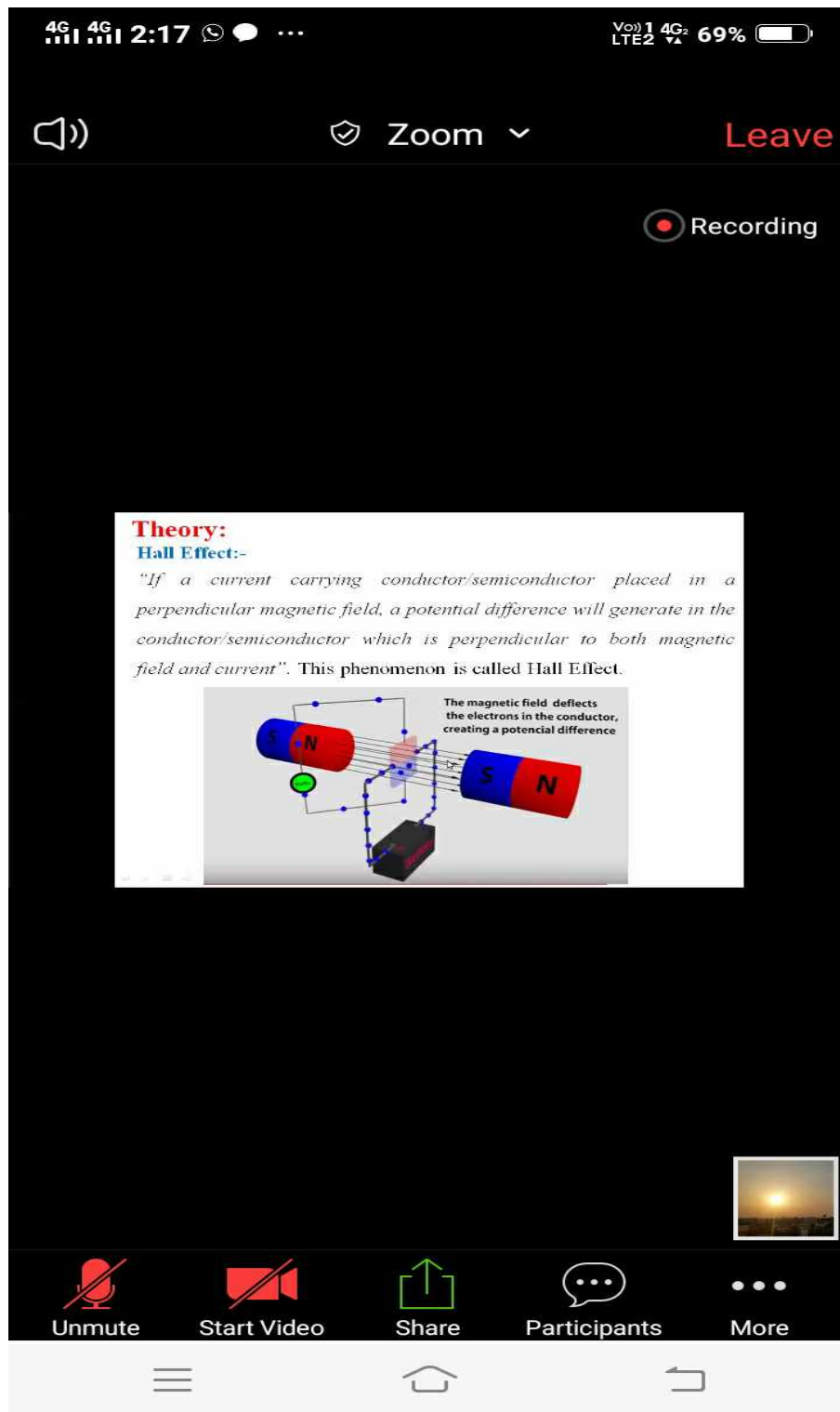


Unmute Start Video Share Participants More

Speaker 1: by Dr. Raja Panthagani
on 29.05.2020



Speaker 1: Dr. Raja Panthagani
on 29.05.2020



Speaker 2: Dr. Shankar
on 30.05.2020

S.No.	Screw Gauge Reading		X in mm	I in $10^{-4}\mu\text{A}$
	H.S.R	P.S.R		
1	2	10	-6.45	0.002
2	2.5	10	-6.1	0.08
3	3	16	-5.45	1.05
4	3.5	19	-4.95	1.32
5	4	23	-4.4	10.2
6	4.5	26	-3.9	441.58
7	5	28	-3.5	2190.3
8	5.5	31	-3	8492.2
9	6	34	-2.5	25734.9
10	6.5	38	-2	65552.7
11	7	40	-1.45	118411.1
12	7.5	44	-0.95	167183.6
13	8	47	-0.45	184498.9
14	8.5	0	-0.05	167183.6
15	9	3	0.45	118411.1
16	9.5	6	0.95	65552.7
17	10	9	1.45	25734.9
18	10.5	13	2	8492.2
19	11	16	2.5	2190.3
20	11.5	19	3	441.58
21	12	22	3.5	10.2
22	12.5	22	3.9	1.32
23	13	28	4.4	0.08
24	13.5	31	4.95	0.002
25	14	34	5.45	0.08
26	14.5	38	6.1	0.002
27	15	45	6.45	0

Variation of intensity of light with distance

$I_0 = 184498.9$
 $I_{\sqrt{2}} = 68080.77$

from graph
 $2r = 2.9 \text{ mm}$
 $r = 1.45 \text{ mm} = 0.0015 \text{ m}$
 $d = 4 \text{ mm} = 0.004 \text{ m}$

Numerical Aperture of the optic fiber: $\sin(\theta) = 0.340799$

Speaker 2: Dr. Shankar
on 30.05.2020