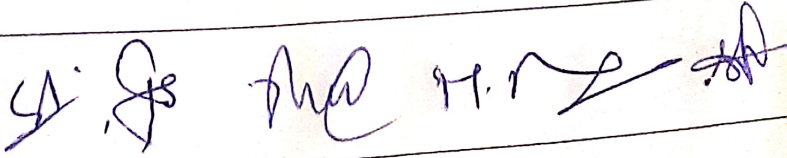


PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF FRESHMAN ENGINEERING

Summary Report on Guest Lecture on the occasion of National science day - 2026

ACADEMIC YEAR : 2025-2026	
Date of Event Organized	10-03-2026
Name of the Event	Guest Lecture - on the occasion of National science day - 2026
Title of the Event	Emerging Technologies for Sustainable Future
Resource Person Details	Dr.V.Jayalakshmi Associate Professor Department of Physics, NIT-Warangal, Telangana
Brief Report on the Event	In this Guest lecture focus on the Emerging technologies playing a vital role in addressing global challenges such as energy demand, climate change, and efficient resource utilization. Among these innovations, Quantum Computing and Two-dimensional (2D) Semiconducting Materials are gaining significant attention for their potential to transform modern science and technology and support a sustainable future. Both Quantum Computing Semiconducting Materials represent transformative technologies that can significantly contribute to sustainable development. While quantum computing can revolutionize complex problem-solving in energy and climate science, 2D semiconducting materials enable the development of advanced electronic devices, energy systems, and environmental technologies. Together, these innovations hold great promise for building a smarter and more sustainable future.
Year/Semester	I YEAR /II SEM
No. of the participants	130
Consolidated Feedback	NA
Suggestions if any	
Name of the Co-ordinator	Faculty of physics
Signature of the Co-ordinator	
Signature of the HOD	 Head

Freshman Engineering Department
PVP Siddhartha Institute of Technology
Kamru, VIJAYAWADA-520 027.

PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA -7
(AUTONOMOUS)
DEPARTMENT OF FRESHMAN ENGINEERING

CIRCULAR

Date: 09-03-2026

All the I B.Tech ECE students are hereby informed to attend a Guest Lecture on "Emerging Technologies for Sustainable Future" organized by the Faculty of Physics, Freshman Engineering Department as part of National Science Day - 2026 celebrations.

The Resource person of lecture Dr. V. Jayalakshmi, Associate Professor, Department of Physics, NIT Warangal, Telangana.

The session will provide valuable insights into emerging technological advancements and their role in shaping a sustainable future. I B.Tech ECE students are encouraged to attend and benefit from this expert interaction.

Date: 10 March 2026

Time: 10:00 A.M. - 11:30 P.M.

Venue: Ground Floor Seminar Hall

5/1
9/3/26
(Dr.M.Sri Lakshmi)

HOD
Freshman Engineering Department
PVP Siddhartha Institute of Technology
KANURU, VIJAYAWADA-520 007.

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY
Department of Freshman Engineering

A Guest Lecture
On

Emerging Technologies for Sustainable Future
(National Science Day – 2026 celebrations)

Venue: Ground Floor Seminar Hall

Date / Time: 10.03.2026/ 10.00 A.M

S.NO	Name of the student	Roll number	Signature
1.	N. Sree Harika.	25501A0490	N. Sree Harika.
2.	M. Deela Jokeswari	25501A0478	M. Deela.
3	P. Kusuma satya	25501A0497	P. Kusuma.
4.	M. G. B. L. praxanna	25501A0481	M. G. B. L. praxanna.
5.	Saanvi. M	25501A0477	Saanvi. M
6.	T. U. Kavitha	25501A0436	T. Kavitha
7.	P. Sireesha.	25501A0494	P. Sireesha.
8.	P. Ameena	25501A0498	P. Ameena
9.	M. Pooja	25501A0482	M. Pooja.
10.	Y. Josthitha	25501A0407	Y. Josthitha.
11.	Zunaira	25501A0430	Zunaira.
12.	Sk. Neha Ameen	25501A4253	Ameen.
13.	Sk. Arshiya	25501A4252	Arshiya. sk
14.	B. Kavya Sri	25501A4209	Kavya
15	CH. Varshitha	25501A0425	CH. Varshitha
16	SD. Gulshad	25501A0434	SD. Gulshad.
17.	Ch. pranitha sri	25501A0427	ch. pranitha
18.	P. Sravani	25501A0450	P. Sravani
19	P. Poojitheswari	25501A0537	P. Poojitheswari

20. M. D. Sadiya Farhath

25501A0561

Sadiya

21. A. Priyanka.

25501A0201

A. Priyanka

22. S. Raja Sri

25501A0257

S. Raja Sri

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"Emerging



Now, I humbly re
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Kanuru, Andhra Pradesh 520007, India

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Quantum Computing

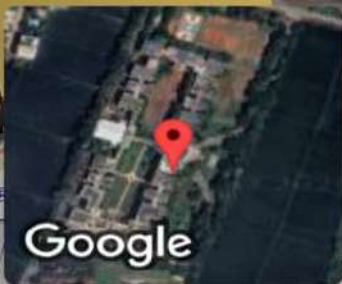
Jayalakshmi Vallamkonda

Assistant Professor
Department of Physics
VIT-AP, Kanuru

<https://www.vitap.ac.in/faculty/jayalakshmi.vallamkonda>

... you will end. Minds are not going to be degenerated. OK so thank you so much for
... ting me and especially my

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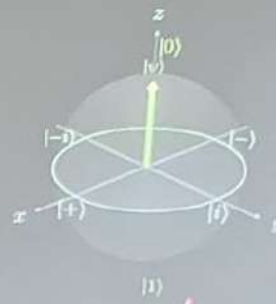
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Bloch Sphere

We can represent a qubit $|\psi\rangle$ as a point on the surface of the Bloch Sphere

Higher vertically = Higher probability of measuring $|\psi\rangle$ as $|0\rangle$
⇒ If $|\psi\rangle$ is on the north pole, $|\psi\rangle = |0\rangle$



representation, OK. So here if you see if it is completely in the zero state, it will be pointing towards or not the pole, OK if it



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