



**VIT-AP**  
**UNIVERSITY**

Apply Knowledge. Improve Life!®

# 5-Day National Level Lecture Series on Energy Conversion and Storage (Online)

(Faculty participants will get the FDP certificate)

Organised by: Department of Physics, School of Advanced Sciences (SAS)

Date: 24 - 28 July 2023 (Monday to Friday)



E-Certificate  
for Participation



Registration Link :

<https://vtop1.vitap.ac.in/NLL/Conferenceinitial>

**Last date for Registration: 23<sup>rd</sup> July 2023**

## About University

With a history of 39 years of innovation in education and research domains, VIT has emerged as a forerunner in delivering quality education. Consistently ranked among the top educational institutions in the country, the VIT group of institutions take pride in scaling new heights of knowledge and excellence in research through hard work and dedication. In keeping up with this tradition, the pioneering leadership at VIT-AP University strives to resonate the academia-industry partnership while forging ahead with decisiveness and dynamism to become one of the leading Universities. VIT-AP University offers a whole range of avenues and training to explore one's abilities and nurture to develop core competencies while engaging the students in a holistic transformation of becoming better global citizens with the motto of 'Apply knowledge- Improve life'.

## About the Programme:

The five-day Lecture Series (FDP) planned online, will deliver a series of lectures on “Energy Conversion and Storage” from 24-28 July 2023. Organized by the Department of Physics, School of Advanced Sciences (SAS), VIT-AP University, the programme will be enriched with technical talks by the subject experts from the Academia and Industry. It will be conducted with an outcome based methodology and concluded with an online quiz for students. The top three scorers in the quiz will be rewarded.

## Topics:

1. Renewables for Sustainable Future
2. Materials for Energy Conversion and Storage
3. Solar Photovoltaic Technologies
4. Fuel Cell
5. Hydrogen Production
6. Batteries

**Who should Attend:** Faculties, Research Scholars, UG & PG Students, Members from Industry and Government Organisations.

**E-Certificate:** A certificate of participation will be awarded to each registered participant after successful completion.

**Venue:** MS Teams (Online)

*Lecture series/FDP link will be shared to the registered participants.*

**Registration Link:** <https://vtop1.vitap.ac.in/NLL/Conferenceinitial>

1. Click the above link for Registration, then you will receive an application number to your registered email ID.
2. With your application number, you can pay the amount using the same link. You can see the 'Pay here' tab after registration.

## Important Dates:

Last Date for Registration: **23<sup>rd</sup> July 2023**

<b>Registration Fee</b>	Faculty/Industry Person	500 ₹
	Research Scholars	200 ₹
	Students	100 ₹

# Program Schedule

## Morning

## Afternoon

**Day-1  
(Monday)  
24<sup>th</sup> July 2023**



**Inaugural Session  
Dr. R. Easwaramoorthi**

ARCI, Hyderabad

**Title of the talk:** Renewable Energy Sources and World Energy Demands

**Time : 10:00 am**



**Dr. Lakshmi Sowjanya Pali**

VIT-AP University

**Title of the talk:**

Solar Cells: Innovative Technologies

**Time : 02:00 pm**

**Day-2  
(Tuesday)  
25<sup>th</sup> July 2023**



**Dr. V. Ganapathy**

ARCI, Hyderabad

**Title of the talk:** Carbon Vs Gold in

Perovskite Solar Cells

**Time : 10:00 am**



**Dr. Amit**

C-MET Hyderabad

**Title of the talk:** Metal Recovery from Discarded li-ion Battery: Towards a Greener Energy

**Time : 02:00 pm**



**Dr. P. Tirupati Rao**

NexMu Ltd, UK

**Title of the talk:** Electrode Materials for Li-ion and Post Li-ion Batteries (Industry Expert)

**Time : 03:00 pm**

**Day-3  
(Wednesday)  
26<sup>th</sup> July 2023**



**Dr. Muneeswaran Muniyandi**

VIT-AP University

**Title of the talk :** Lead-free Piezoelectric

Ceramic for Energy Storage

**Time : 10:00 am**



**Dr. R. Kalai Selvan**

Bharathiar University

**Title of the talk:** Materials for Energy Storage and Energy Conversion

**Time : 02:00 pm**

**Day-4  
(Thursday)  
27<sup>th</sup> July 2023**



**Dr. P. Tamilarasan**

CSIR, Karaikudi

**Title of the talk:** Fuel Cell: Fundamentals, Development and Applications

**Time : 10:00 am**



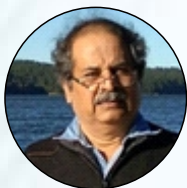
**Dr. S. Dasaradha Ramarao**

VIT-AP University

**Title of the talk:** Hydrogen Production using Ni-Sn Alloys

**Time : 02:00 pm**

**Day-5  
(Friday)  
28<sup>th</sup> July 2023**



**Mr. Vijay Shirgurkar**

Director, PV Energy Experts

**Title of the talk:** Solar Panel Installation

(Industry Expert)

**Time : 10:00 am**

**Time : 2 PM Quiz for Participants**

**Time : 3 PM Valedictory**

## About Physics Department:

The Department of Physics offers M.Sc. and Ph.D. programmes. Students are trained on foundational and advanced concepts leading to a broad understanding of engineering physics equipped with practical skills that enable them to address challenging engineering problems. Laboratory training complements their class-based learning by providing them with hands-on experience of using a variety of devices and by imparting knowledge of experimental design. Furthermore, students have the opportunity to engage themselves in research projects with faculty members starting from their undergraduate level. Research at our department helps students develop essential analytical and problem-solving skills to deal with the current and future technological challenges. Department has three external funded projects, more than 20 projects funded by the University. The department has 24 faculty members with Ph.D. degree and Post doctoral research experience from internationally reputed Universities.

## Programs Offered:

- M.Sc. Physics (Regular)
- M.Sc. Physics (Energy Science and Technology)
- Ph.D. Physics

## Facilities at Physics Department:



## Areas of Innovation and Research:

- Nano-materials
- Bio-physics
- Semiconducting Materials and Devices
- Energy Materials
- Polymer Science
- Computational Physics
- Photonics and Optical Communications
- Quantum Physics
- Magnetic Materials
- Thin films
- Condensed Matter Physics
- Sensors

## Research/ Industry Collaboration:

- NoPo Nanotechnologies, India Pvt., Ltd.
- QpiAI India Pvt., Ltd.
- Bhagwat Energy Pvt. Ltd, India
- CSIR-IICT Hyderabad



## Students Fellowships and Benefits

VIT Fellowship for PhD students	GATE Qualified (Above 60% in PG)	Others
First Year	Rs. 31,000/Month	Rs. 25,000/Month
Second and Third Year	Rs. 35,000/Month	Rs. 31,000/Month

- ✓ Raman Research Award to scholars up to 1 lakh for research publications.
- ✓ Scholars are encouraged to apply for JRF (CSIR/UGC)/Inspire Fellowships/Rajiv Gandhi Scholarships and other Govt. Scholarships.
- ✓ Contingency amount of Rs. 10,000 per year for all scholars.
- ✓ Open access research publication support for Q1 and Q2 Journals.
- ✓ Financial support for attending conferences/workshops/training programmes etc.
- ✓ Support for Start-ups and Patents.

## Co-ordinators

**Dr. Lakshmi Sowjanya Pali**

**Dr. Rajanikanth M**

**Dr. J. Sudagar**

**Dr. Manmadharao Banki**

**Dr. N. Ashok**

**Dr. Senthil K**

**Dr. Siva Kumar Reddy**

**Dr. Dasarada Ramarao**

**Dr. Muneeswaran Muniyandi**

## Contact information

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