



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O.), Hyderabad TS 500 090 India
AICTE Approved; UGC Autonomous; JNTUH Affiliated; UGC "College with Potential for Excellence"; NAAC "A++" Grade
ISO 9001:2015 Certified; QS I.GAUGE "Diamond" Rated; NIRF 2020: 127th Rank Engineering (151–200 Band Overall)
NBA Accredited: CE, CSE, ECE, EEE, EIE, IT, ME; JNTUH-Recognised Research Centres: CE, CSE, ECE, EEE, ME
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Energy comes in multiple forms including radiation, chemical, gravitational potential, electrical potential, electricity, elevated temperature, latent heat and kinetic. **Energy storage** is the capture of energy produced to use at one time and also at a later time to reduce imbalances between energy derived and energy produced. The **Energy Systems** with conversion efficiencies, improved storage capacities, and better reliabilities are being developed to meet the global energy needs of the growing population. These prospects have emerged as key factors that affect the performance of energy materials. Realizing the importance of this subject, **Department of Humanities and Sciences of VNRVJIE**T is organizing a **two day e-Symposium**. The objective of the event is to bring out the significance of various energy materials and to meet the challenges in developing energy materials by various procedures that exhibit the characteristics of energy systems. This symposium will positively provide an opportunity for participants (Students, Faculty and Researchers) to exchange views about the present and future developments on energy materials and energy storage. Also, promote discussions on key issues of energy storage sector in terms of materials, devices and their electrochemistry as well as applications.

About Institute

"Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology" was established by the 'Vignana Jyothi' Society as a not-for-profit organization in the year 1995, with a motto to provide value based education on par with international standards. The Philosophy of Vignana Jyothi unravels education as a process of "Presencing" that provides, both individually and collectively, to one's deepest capacity to sense and experience the knowledge and activities to shape the future. The Institute is established with the permission of AICTE and Govt. of AP. Institute offers 9 B.Tech. 13 M.Tech and Ph.D. Programs. All the courses offered by the institute are affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad. The institute is recognized under section 2(f) and 12(B) of the UGC Act, 1956. The Institute is accorded Autonomous status by UGC for 6 years in 2012 and Extension of Autonomous Status is accorded for 10 years in 2018. Institute is Accredited by NAAC with 'A++' Grade with CGPA 3.73/4.0 in Cycle-II in 2018. 7 B.Tech courses are accredited by NBA. The institution is granted with "College with Potential for Excellence (CPE)" status by UGC for a period of five years w.e.f 2016. AICTE has identified the institute as a Research Institute under the National Doctoral Fellowship scheme and 5 Departments are recognized as Research Centres by JNTUH, Hyderabad. Institute is certified by International Standards Organisation with ISO 9001:2015, QS i-GAUGE awarded "Diamond" college rating and E-LEAD (E-Learning Excellence for Academic Digitisation) Certification. MHRD, India has ranked the institute at 127th rank in the Engineering category and 151-200 rank band in the Overall category in NIRF 2020.

About Department of Humanities & Sciences

The Humanities and Sciences Department started functioning right from the inception of the Institute in the year 1995. The Department comprises five disciplines namely, English, Mathematics, Physics, Chemistry and Management Sciences. As an integral part of the institute, the prime focus of H&S Department is to provide a conceptual base in Basic Sciences which form a foundation to the Engineering subjects. Apart from this, the department is instrumental in grooming the students into competent Engineers and individuals through training in Soft Skills and Managerial Economics ready to compete for global opportunities. The department takes pride in having experienced faculty with educational and research background from premier institutes like NIT, IIT, HCU and EFLU. In view of the rapid development of knowledge and the technological changes, the department of H&S seeks to strengthen the department by integrating it with the engineering departments for a productive knowledge base. The department has been encouraging the conduct of workshops and seminars to enable the faculty to keep abreast of the knowledge and methodologies in the respective fields of research.

A Two day e-Symposium on "Materials for Energy and Energy Storage"

on
03.09.21
&
04.09.21

Link for Registration:

<https://forms.gle/u356BqUkrMC4wEh1A>

WhatsApp Link:

<https://chat.whatsapp.com/LNWPoRwV1GDImpAP6N17Rq>

*Certificate will be provided
for all attended*
participants*

No
Registration
fee



A Two day e-Symposium on “Materials for Energy and Energy Storage”



Chief Patron

Dr. D. N. Rao, President, Vignana Jyothi
Sri. K. Harishchandra Prasad, General Secretary, Vignana Jyothi

Patrons

Dr. C. D. Naidu, Principal, VNR VJIEET
Dr. B. Chennakesava Rao, Director (Advancement)
Dr. A. Subhananda Rao, Director (R&D)

Convenor

Dr. T. Jayashree, Professor, HOD H&S Department.

Coordinators

Dr. T. Rajani, Assistant Professor (Physics)
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Dr. S. D. Rama Rao, Assistant Professor (Physics)
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Co-coordinators

Dr. P. Pavan Kumar, Assistant Professor (Physics)
Dr. C. Thirmal, Assistant Professor (Physics)

Resource Persons

Dr M. Praveen,
Associate Professor,
Department of Chemical Engineering, IIT-Hyderabad

Dr G.Venkataiah,
Assistant Professor,
School of Physics, University of Hyderabad.

Dr. Sai Santhosh Raavi,
Associate Professor,
Department of Physics, IIT-Hyderabad.

Dr Saurav Chandra Sarma,
Post.doc (Marie Sklodowska-Curie individual fellow),
Imperial College, London.

Dr Ch. Shilpa Chakra,
Assistant Professor, Head of Department,
Center for Nano Science and Technology, JNTU Hyderabad.



A Two day e-Symposium on "Materials for Energy and Energy Storage"
Organized by Department of Humanities and Sciences

Common Link for ALL Sessions:

<https://teams.microsoft.com/l/meetup-join/19%3a6713edbe3e6148f6968dbfceb31bd461%40thread.tacv2/1629802189544?context=%7b%22Tid%22%3a%22bdc7431b-795b-4c64-bfeb-6f158140aeb2%22%2c%22Oid%22%3a%221b242bb2-be08-4caa-8caa-4ec58409dd85%22%7d>

Schedule

03-09-2021 (Friday)	
09:30-10:00	Inaugural Session
10:00 – 11: 30	I – Session by Dr.M.Praveen Title: "Energy conversion and storage: A necessity and hype"
11:30 – 11:45	Discussions and Interaction
12:00-13:30	II – Session by Dr Ch. Shilpa Chakra Title: "Materials Processing and characterization tools for energy storage"
13:30-13:45	Discussions and Interaction
13:45-14:30	LUNCH
14:30-16:00	III-Session by Dr.S.D.Ramarao, Dr.T.Rajani Title: "Designing materials for energy relevant applications" & "Wide band gap semi-conductors for energy storage systems".
04-09-2021 (Saturday)	
09:30-11:00	IV– Session by Dr Sai Santosh Raavi Title:" Novel emerging materials for sustainable energy applications"
11:00 – 11: 15	Discussions and Interaction
11:30 – 13:00	V – Session by Dr G.Venkataiah Title: "Magnetolectric Multiferroics: Ultra power consumption"
13:00- 13:15	Discussions and Interaction
13:15-14:00	LUNCH

VI – Session by Dr Saurav Chandra Sharma	
14:00 – 15:30	Title: “Exploring materials for sustainable energy applications”
15:30-15:45	Discussions and Interaction
15:45-16:30	Valedictory