



ONLINE SHORT TERM TRAINING PROGRAMME
(Sponsored By AICTE)

**“Novel Materials and Energy Storage Devices for
Environmental and Health Care Applications”**
(24-01-2022 to 31-01-2022)

Organized by

UGC – HUMAN RESOURCE DEVELOPMENT CENTRE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD, TELANGANA STATE



ABOUT UGC-HRDC, JNTUH:

The UGC-Human Resource Development Centre (formerly known as UGC-Academic Staff College), Jawaharlal Nehru Technological University Hyderabad, was established in the year 2000 and sponsored by the University Grants Commission, New Delhi. The UGC-Human Resource Development Centre organizes Faculty Induction Programmes, Orientation Programmes, Refresher Courses, Faculty Development Programmes, Short Term Training Programmes and Workshops on thrust areas for in-service teachers and also for newly appointed teaching faculty on a regular basis, to update the knowledge and skills in their respective fields.

During the current academic year 2021-22, a one-week AICTE sponsored Short Term Training Programme on “Novel Materials and Energy Storage Devices for Environmental and Health Care Applications” is proposed to be organized by HRDC, JNTUH in association with the Dept. of H & S, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana State, during 24-01-2022 to 31-01-2022 through ONLINE.

ABOUT VNR Vignana Jyothi Institute of Engineering and Technology:

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) was established by the Vignana Jyothi Society, a not-for-profit organization, in the year 1995. Education determines a society’s growth and development. With a motto to provide value-based higher 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. This process, along with a conscientious will to put Success and Happiness first leading to a better future has put VNRVJIET at the forefront of academic excellence. The Institute is approved by AICTE and is affiliated to JNTU-H. It offers 13 UG programmes, 13 PG programmes, and Ph.D. programmes under NDF scheme of AICTE — the only Institute in the Telangana State to get this recognition! — thus imparting quality education to over 6000 students.

MAJOR COURSE CONTENTS:

- Overview on Nanomaterials and their Significance
- Tribo electric Nano generators for powering portable devices
- Fabrication methods of nanomaterials
- Nanomaterials Synthesis, Characterization Techniques
- Textile Technology for self-powered wearable application
- Drug delivery materials and PLASMA-4th state matter for antimicrobial properties
- Metamaterial based Microwave Sensor and its Application
- Hands on Device Modeling and Simulation
- Nano technology for designing Environment friendly vehicles
- Nano filters for capturing CO₂ in the ambient air



CHIEF PATRON
Prof. Katta Narasimha Reddy
Vice-Chancellor
JNTUH, Hyderabad, T.S.

CONVENER
Dr. G.K. Viswanadh
Professor of Civil Engineering &
Director
UGC-HRDC, JNTUH, Hyderabad, T.S.



COURSE COORDINATOR:

Dr. Padmavathi Papolu
Assistant Professor
Dept. of Humanities & Sciences
VNR VJIE, Pragathi Nagar
Nizampet (S.O), Hyderabad, T.S.



REGISTRATION FEE PARTICULARS:

- **There is No Registration fee for participation.**
E-certificate will be issued to the participants on successful completion of the course.

ELIGIBILITY:

The faculty members from the departments of Chemistry and Physics, working in AICTE approved Institutions and Industry Professionals.

HOW TO APPLY:

- The faculty members desirous to participate in the program are requested to register their details through online mode at <http://jntuhhrdc.in/delegate-registration> on or before 20th January, 2021. For further queries, please mail us at: directorhrdcjntuh@jntuh.ac.in
- Filling the online registration form is mandatory.
- A filled-in form of application duly signed by the faculty member, forwarded by the Head of the Institution and letter of forwarding from the Head of the Institution, should be uploaded in HRDC portal on or before the last date.

SELECTION CRITERIA:

Selection will be done based on **first-come-first-serve basis**. The list of selected participants will be intimated through E-mail.

RESOURCE PERSONS: Resource Persons are drawn from the IITs/NITs, IICT and other reputed Academic Institutions, Industries and R & D organizations.

IMPORTANT DATES:

Last date for the receipt of application through online	:	20th January, 2022
Intimation of selection to the participants through e-mail	:	21st January, 2022
Course Duration	:	24-01-2022 to 31-01-2022
Course Timings	:	10.00 AM to 1.15 PM & 2.00 PM to 5.15 PM

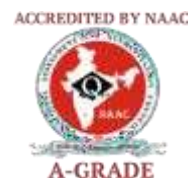
INSTRUCTIONS TO THE PARTICIPANTS FOR ONLINE COURSE:

- (1) Filling the registration form is mandatory.
- (2) Attendance for all the sessions, Completion of activities, assignments and online tests given by the Resource Persons are mandatory.
- (3) All sessions will be conducted on WebEx.
- (4) Link will be provided a day in advance.
- (5) Limited seats are available on First-Come-First-Serve basis.

ADDRESS FOR ALL CORRESPONDENCE:

Dr. G.K.VISWANADH
Professor of Civil Engineering &
Director, UGC-Human Resource Development Centre
Jawaharlal Nehru Technological University Hyderabad
Kukatpally, Hyderabad– 500 085, Telangana State
Contact us: 8008103814 (All working days from 10.30 am to 5.00 pm only)
Mail us: directorhrdcjntuh@jntuh.ac.in Visit us: www.jntuhhrdc.in

Phone: 040-23151610
Fax: 040-23156795
Web : www.jntuhhrdc.in
EMail:directorhrdcjntuh@jntuh.ac.in



UGC-HUMAN RESOURCE DEVELOPMENT CENTRE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Establishment by Govt. Act No. 30 of 2008)

Kukatpally, Hyderabad – 500 085, Telangana State, India.

Dr. G.K. VISWANADH

B.E (Civil), M.E.(Hydraulics), Ph.D., F.I.E.

Professor of Civil Engineering &

DIRECTOR

Date: 21-01-2022

Dear Sir/Madam,

Thank you for your interest in participating in the AICTE Sponsored One Week Online Short Term Training Programme on “**Novel Materials and Energy Storage Devices for Environmental and Health Care Applications**” scheduled from **24-01-2022 to 31-01-2022**, being organized by Human Resource Development Centre (HRDC), JNTUH, Hyderabad.

Your registration has been accepted. Attendance for all the sessions and completion of the activities, assignments and online tests given by the Resource Persons are mandatory to get the certificate, failing which certificate will not be issued.

A WhatsApp group will be created with the selected participants for further communication. The participants who have not entered their WhatsApp number while registration, are requested to send their WhatsApp number to the mail id **directorhrdcjntuh@jntuh.ac.in** before 5.00 pm on 22-01-2022.

Steps to be followed to join the course

Please join JNTUH HRDC STTP Programme from your computer, tablet or smart phone from the below link:

<https://jntuhhrdc.webex.com/jntuhhrdc/onstage/g.php?MTID=e28c0bdf347c646a94f37c590b3f2a011>

Date and time: Monday, 24th January-2022 @ 9:45 am

Meeting number: **2512 443 3470**

Password: **STTPNMESD**

The link is Unique and don't share the link with anyone. If anyone attended the course with your link your registration will be cancelled.

Etiquette Guide or Ground Rules

Keep the following guidelines in mind to improve quality of the sessions.

- Do not enable camera
- Use a headset with microphone for optimal audio quality.
- Mute the microphone when not in use to avoid disturbance to others.
- If you have questions, post on the chat window
- If you definitely need to ask a question vocally, the organizer will unmute you.

NOTE: The selection to the program is subject to the submission of the sponsorship letter/letter of forwarding from the head of the institution. If the institution is not able to provide the sponsorship letter/letter of Forwarding, due to the present prevailing situation, you may submit the same before the course completion to get the participation certificate.

Please join the course by 9.45 am on 24th January, 2022.

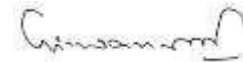
List of Participants:

S. No	Name of the Participant	Designation	Dept.	College Name	Address	State
1	Ashok Kumar Kusuma	Assistant Professor	Physics	B V Raju Institute of Technology	BVRIT, Vishnupur Narsapur	Telangana
2	Patlola Madhusudhan	Assoc. Professor	Chemistry	B V Raju Institute of Technology	BVRIT Nrsapur Medak District	Telangana
3	Jaya Prakash Reddy Kasu	Assistant Professor	Physics	CMR College of Engineering & Technology	Kandlakoya(v), Medchal Road .Medchal Malkajgiri district Telangana, India - 501401.	Telangana
4	Ayyappa Bathinapatla	Assistant Professor	Chemistry	CMR Institute of Technology	Srinivasa Reddy layout, ITPL mainroad, Kundalahally, Bangalore	Karnataka
5	Ramu Neredimelli	Assistant Professor	Physics	Dr. L B College	Visakhapatanam	Andhra Pradesh
6	Sarada Marellapudi	Assistant Professor	Physics	Global Institute of Engineering and Technology	Chevella, Moinabad, Hyderabad	Telangana
7	Raju Bura	Assistant Professor	Chemistry	Institute of Aeronautical Engineering	Dundigal, Secunderabad, T.S. 500043	Telangana
8	Sabitha Kala	Assistant Professor	Chemistry	Jawaharlal Nehru Technological University Hyderabad	JNTUHyderabad	Telangana
9	Dr. Vishnu Palle	Assistant Professor	Physics	Jayamukhi Institute of Technological Sciences	Narsampet,	Telangana
10	Dr. D. Praveena	Assistant Professor	Chemistry	Kakatiya Institute of Technology and Science	Opposite to yerragattu gutta, Bheemaram	Telangana
11	K Rajashekhar	Assistant Professor	Physics	Kamala Institute of Technology and Science	Huzurabad, Karimnagar -505468	Telangana
12	Sreenancha Govardhan	Assistant Professor	Chemistry	Kshatria Collge of Engineering	Armoor, Nizamabad, T.S.	Telangana

13	Dr. Govind Apparao Karhale	Asst. Professor	Physics	Madhavrao Patil Acs College Palam Dist. Parbhani	Madhavrao Patil ACS College, Palam Dist Parbhani M.S, India.	Maharashtra
14	Gowrdhan Pandurang Urkude	Assistant Professor	Physics	Madhavrao Patil Arts, Commerce and Science College Palam	Palam Tal Palam Dist Parbhani	Maharashtra
15	Bhavya S	Asst. Professor	Biochemistry	Mahalashmi Women's College of Arts and Science	Mahalashmi women's college, Paruthippattu,	Tamil Nadu
16	Dr. Cheva Mahender	Assistant Professor	Chemistry	Malla Reddy Engineering College	Maisammaguda, Dhulapally (poat via kompally), Medchal-Malkajgiri, 500 100	Telangana
17	Mr. Mayur Ashok Patil	Assistant Professor	Chemistry	MGSM'S Arts Science Commerce College Chopda	Yawal Road Chopda Dist Jalgaon	Maharashtra
18	Dr. Sandip Ramrao Patil	Assistant Professor	Chemistry	MGSM's Arts, Science & Commerce	Chopda, Jalgaon, Maharashtra	Maharashtra
19	Ch. Vijaya Babu	Asst. Professor	Physics	Pallavi Engineering College	Kuntloor	Telangana
20	Sanjeevkumar	Professor	Physics	Pallavi Engineering College	Kuntloor-501505	Telangana
21	Dr. Amol Pundalik Manake	Assistant Professor	Chemistry	Pratap College Amanler	Marwad Road, Near Ram Mandir, Amalner. Tal-Amalner Dist-Jalgaon Pin-425401	Maharashtra
22	Dr. Vidyasagar C C	Assistant Professor	Chemistry	Rani Channamma University	Rani Channamma University PB-NH-04, Belgaum-591156	Karnataka
23	Pallavi Kawadkar	Asst. Professor	Chemistry	RKDF IST	Bhopal Nh-12 Nishat Motors Misrod Road Hoshangabad Road 462023	Madhya Pradesh
24	Dr Dnyanoba Baburao Muley	Assistant Professor	Chemistry	Shivaji Mahavidyalaya Udgir	Opposite Government Hospital, shivaji Mahavidyalaya Udgir	Maharashtra
25	Ms.Rakhi Dnyaneshwar Bankar	Assistant Professor	Chemistry	Shri Shivaji College of Art&S, Commerce And Science, Akola, Maharashtra	Shri Shivaji College of Art&S, Commerce And Science, Akola, Near Shivaji Park Akola, 444001, Maharashtra	Maharashtra
26	Dr.K. Rajalakshmi	Assistant Professor	Chemistry	Shrimati Indira Gandhi College	Tiruchirapalli	Tamil Nadu
27	Venkatesham Maragoni	Professor	Chemistry	Siddhartha Institute of Engineering And Technology Technology	Ibrahimpatnam, Hyderabad, T.S.	Telangana
28	Dr Dattatraya Kisan Pawar	Assistant Professor	Chemistry	SIES College of Arts, Science and Commerce	SIES College of Arts, Science and Commerce, Jain Society, Sion West, Mumbai - 400022	Maharashtra
29	Dr. As Bhanu Prasad	Professor	Chemistry	Sri Indu College of Engineering and Technology	Sri Indu college of engineering and Technology, Sheriguda, Ibrahim patnam,	Telangana

30	Sreedhar M	Asst Professor	Chemistry	Sri Indu College of Engineering and Technology	Sheriguda(V), Ibrahimpatnam(M) RR. Dist.	Telangana
31	Dr.B.Rajini Kanth	Professor & Head	Physics	TKR College of Engineering and Technology	Medbowli Meerpet Hyderabad	Telangana
32	Dr.N.Mamatha	Assistant Professor	Chemistry	Valluri Nageshwara Rao Vignana Jyothi Institute of Science and Technology	Department of Humanities and Sciences, VNR VJIET, Bachupally	Telangana
33	Dr. C. Karthik Kumar	Assistant Professor	Chemistry	Vinayaka Missions Kirupananda Variyar Arts And Science College	NH,47-Periyaseeragapadi, Salem-636308	Tamil Nadu
34	Dr. Jeyakanthan. M	Assistant Professor	Physics	Vinayaka Mission's Kirupananda Variyar Arts And Science College	Vinayaka Mission Research Foundation , Sankari Main Road, Ariyanoor Salem	Tamil Nadu
35	Dr. V. Anbazhagan	Principal	Chemistry	Vinayaka Mission's Kirupananda Variyar Arts And Science College	Vinayaka Mission's Research Foundation Deemed to be University, Ariyanoor, Salem 636308, Tamilnadu	Tamil Nadu
36	Dr.P.Pavan Kumar	Assistant Professor	Physics	VNR Vignana Jyothi Institute of Engineering and Technology	Bachupally, Via Kukatpally,	Telangana
37	K.Madhavi	Assistant Professor	Chemistry	VNRVJIET	VNRVJIET Bachupally Hyderabad	Telangana
38	Dr. Pravin Shahaji Bhale	Assistant Professor	Chemistry	Yeshwantrao Chavan Mahavidyalaya, Tuljapur, Dist-Osmanabad-413601	Yeshwantrao Chavan Mahavidyalaya, Tuljapur, Dist-Osmanabad-	Maharashtra
39	A Suresh	Asst. Professor	Mechanical Engineering	CVR College of Engineering	Mangalpally	Telangana
40	Vuda Rahul	Assistant Professor	Mechanical Engineering	CVR College of Engineering	CVR College of Engineering, Ibrahimpatnam, Hyderabad	Telangana
41	Sarat Kumar Sahoo	Assistant Professor	Mechanical Engineering	CVR College of Engineering, Hyderabad	CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatnam (M), Rangareddy, 501 510	Telangana
42	Shankamma Kalikeri	Assistant Professor	Nano Science and Technology	Division Of Nano Science and Technology, JSS AHER	Dept of Water and Helgth,School of Life Sciences. JSS AHER Mysuru-570015	Karnataka
43	Dr. Sridhar Patthi	Professor	Electrical & Electronics Engineering	Institute of Aeronautical Engineering	Dundigal, Hyderabad	Telangana
44	Pregnapuram Sowmya	Assistant Professor	Chemical Engineeirng	Jawaharlal Nehru Technological University Hyderabad	Kukatpally Hyderabad	Telangana
45	Dr.K.Suneeta	Professor	Electrical & Electronics Engineering	JB Institute of Engineering And Technology	Yenkapally(v),moinabad	Telangana

46	Poli Lokeshwara Reddy	Assistant Professor	Electronics & Communications Engineering	K.S.R.M.College of Engineering	Kadapa	Andhra Pradesh
47	Satheesh Gundlapalli	Assistant Professor	Electrical & Electronics Engineering	Kamala Institute of Technology & Science	Singapur, Huzurabad	Telangana
48	Dr.V.Shanmuga sundaram	Assistant Professor	Electrical & Electronics Engineering	Sona College of Technology	Department of EEE Sona College of Technology Sona Nagar , Salem-636005, Tamilnadu	Tamil Nadu
49	Dr Nukala Srinivasa Rao	Professor HOD	Electronics & Communications Engineering	Matrusri Engineering College	16-1-486 NEAR Madannapet Veg Market; Saidabad Hyderabad 500059	Telangana
50	B.Sai Venkata Krishna	Assistant Professor	Mechanical Engineering	Megha Institute of Engineering and Technology for Women	Survey No 7, Edulabad, Ghatkesar.	Telangana
51	Parikshit Gautam Jamdade	Assistant Professor	Electrical Engineering	Pvgs College of Engineering and Technology, Pune	44, Shivdarshan, Parvati, Pune	Maharashtra
52	Nenavath Surya	Assistant Professor	Mechanical Engineering	TKR College of Engineering and Technology	N.Surya, Department of Mechanical Engineering, TKR College of Engineering and Technology, Meerpet, Balapur, Rangareddy	Telangana



**DIRECTOR
UGC-HRDC, JNTUH &
UNIVERSITY COORDINATOR,
AICTE PROGRAMMES, JNTUH**



AICTE Sponsored ONLINE SHORT TERM TRAINING PROGRAMME
**“Novel Materials and Energy Storage Devices for Environmental
 and Health Care Applications”**
(24th January – 31st January, 2022)



Organized by

**UGC – HUMAN RESOURCE DEVELOPMENT CENTRE
 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
 KUKATPALLY, HYDERABAD, T.S.**

Date	10.00 to 11.30 AM		11.45 to 1.15 PM	2.00 to 3.30 PM	3.45 to 5.15 PM	5.30 to 7.30 pm
24-01-2022 Monday	10.00 to 11.00 AM Inaugural Session	Fundamentals of Nanoscience and Characterization of Nanomaterials by Prof Ghanshyam Krishna, Professor, University of Hyderabad	Fundamentals of Nanoscience and Characterization of Nanomaterials by Prof Ghanshyam Krishna, Professor, University of Hyderabad	Tribo electric Nanogenerators for Powering Portable Devices and its Smart Powered Applications by Dr. Arunkumar, VIT-Vellore campus	Tribo electric Nanogenerators for Powering Portable Devices and its Smart Powered Applications by Dr. Arunkumar, VIT-Vellore campus	Assignment Session
25-01-2022 Tuesday	PLASMA-the 4 th State of Matter and its Antimicrobial Properties by Dr. Karthika Prasad Austarlian National University and BudMore Pty Ltd	TEA BREAK	PLASMA-the 4 th State of Matter and its Antimicrobial Properties by Dr. Karthika Prasad Austarlian National University and BudMore Pty Ltd.	LUNCH BREAK	Hands on Device Modelling and Simulation by Er.Suhasini, Dept of ECE, SRM IST, Chennai.	
27-01-2022 Thursday	Self Sustained Communication with RF Energy Harvesting by Dr. Rinkee Chopra IITDM		Self Sustained Communication with RF Energy Harvesting by Dr. Rinkee Chopra IITDM		TEA BREAK	

Date	10.00 to 11.30 AM	B	11.45 to 1.15 PM	H	2.00 to 3.30 PM	B	3.45 to 5.15 PM	5.30 to
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					7.30 pm
28-01-2022 Friday	Nanostructured Optoelectronic Devices and their Applications by Dr. Ramdevudu Vasavi College of Engineering (Autonomous) Hyderabad	Nanostructured Optoelectronic Devices and their Applications by Dr. Ramdevudu Vasavi College of Engineering (Autonomous) Hyderabad	Nanotechnology for Eco-Freindly Vehicles by Dr. PandiyarasanVeluswamy Smart and Innovative Laboratory for Energy devices {SMILE} Research laboratory IIIDM - Kancheepuram	Nanotechnology for Eco-Freindly Vehicles by Dr. PandiyarasanVeluswamy Smart and Innovative Laboratory for Energy devices {SMILE} Research laboratory	Assignment Session
29-01-2022 Saturday	The Development of Mechanostereochemistry and its Future Applications by Dr. Chinnaraja Eswaran Department of Chemistry, Northwestern University, Illinois, USA-60208.	Nanomembranes for Capturing Air Pollutants from Ambient Air by Dr. P. Padmavathi Humanities and Sciences Dept. VNRVJIET	Textile Technology for Self Powered Wearable Application by Dr. PandiyarasanVeluswamy Smart and Innovative Laboratory for Energy devices {SMILE} Research laboratory	Textile Technology for Self Powered Wearable Application by Dr. PandiyarasanVeluswamy Smart and Innovative Laboratory for Energy devices {SMILE} Research laboratory	
31-01-2022 Monday	Hybrid Nanomaterials for Energy and Environmental Applications by Dr. H. Shankar Head Materials Charecterization lab, Member –Center For Research and Development KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu	Hybrid Nanomaterials for Energy and Environmental Applications by Dr. H. Shankar Head Materials Charecterization lab, Member – Center For Research and Development	National Education Policy - 2020 By Dr. G.K. Viswanadh Director, UGC-HRDC, JNTUH	Online Exam & Valedictory Session	

Note: Certificates will be issued only to those participants who have minimum of 80% attendance & 60% qualifying marks in the exam. Completion of all the day's assignments is mandatory.



DIRECTOR
UGC-HRDC, JNTUH &
UNIVERSITY COORDINATOR,
AICTE PROGRAMMES, JNTUH

ONLINE SHORT TERM TRAINING PROGRAMME (Sponsored By AICTE) “Novel Materials and Energy Storage Devices for Environmental and Health Care Applications”

S. No	Title of the Programme	Schedule	Sponsored by	No. of Days	No. of participants registered
1	ONLINE SHORT TERM TRAINING PROGRAMME (Sponsored By AICTE) “Novel Materials and Energy Storage Devices for Environmental and Health Care Applications”	24-01-2022 to 31-01-2022	AICTE	6	52



“Live as if you were to die tomorrow, Learn as if you were to live forever.”
– Mahatma Gandhi

- Participants (11)
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