



UGC Sponsored
Two-week Online Refresher Course on
“Power Systems”
(01-03-2021 to 16-03-2021)



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

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 University Grants Commission, New Delhi. The UGC-Human Resource Development Centre organizes Orientation Programmes, Refresher Courses, Short Term Courses 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 2020-2021, a two-week Refresher Course on “Power Systems” is proposed to be organized by UGC-HRDC, JNTUH during **01-03-2021 to 16-03-2021** through ONLINE.

Major Course Contents:

- **Hydroelectric Power Stations**
- **Thermal Power Stations**
- **Nuclear Power Stations**
- **Overview of Non-Conventional Energy Sources**
- **Solar Energy**
- **Wind Energy**
- **Different types of Energy Sources like Ocean, Tidal and Wave Energy**
- **Economics of Generations**
- **DC & AC Distribution Systems**
- **Overhead Line Insulators and Insulated Cables**
- **Calculation of Inductance and Capacitance of Transmission Lines**
- **Corona Aspects**

Eligibility:

- The faculty members from the department of Electrical and Electronics Engineering, working in Universities and Colleges.
- The faculty members have to be sponsored by the concerned Principal of the College / Head of the Institution for considering the participation in the Programme.



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

Course Coordinator:

Dr. A. Jayalaxmi
Professor of EEE & Coordinator, GIAN
JNTUH College of Engineering Hyderabad
Hyderabad



Registration Fee Particulars:

The Registration fee for the course is **Rs. 1000/- (Rupees One Thousand Only)** to be paid through online payment mode. E-Certificate will be issued to the participants on successful completion of the course.

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 **24th February 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 and forwarded by the Head of the Institution and sponsorship certificate from the Head of the Institution, should be uploaded in HRDC portal on or before the last date.

Resource Persons:

Resources persons are drawn from different Universities, Institutions, Industries and R&D establishments.

Selection Criteria:

Selection will be done based on *first-come-first-serve basis* to a maximum number of 40. The list of selected participants will be intimated through E-mail.

Important Dates:

| | |
|--|---|
| Last date for the receipt of application through online | : 24th February 2021 |
| Intimation of selection to the participants through e-mail | : 25th February 2021 |
| Course duration | : 01st – 16th March 2021 |
| 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

Please contact: **8008103814** (All working days from 10.30 am to 5.00 pm only)

or directorhrdcjntuh@jntuh.ac.in for more enquiries about the Refresher Course

Web: 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: 25-02-2021

Dear Sir/Madam,

Thank you for your interest in participating in the Two-week Online Refresher Course on “**Power Systems**” scheduled from 01-03-2021 to 16-03-2021, being organized by UGC-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 25-02-2021.

Steps to be followed to join the course

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

<https://jntuhhrdc.webex.com/jntuhhrdc/onstage/g.php?MTID=e814eb87614f6c01efeb2525f532f7192>

Date and time: Monday, 1st March -2021 @ 9:30 am

Meeting number: **184 391 9638**

Password: **RCPS!@#45**

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

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

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.

Please join the course by 9.45 am on 1st March, 2021.

List of Participants:

| S. No | Name Of The Candidate | Designation | Department | College | Address | State |
|-------|---------------------------|---------------------|--------------------------------------|---|--|-----------|
| 1 | Jupelli Kotaiah | Assistant Professor | Electrical & Electronics Engineering | Sree kavitha Engineering College | Karepalli , Khammam | Telangana |
| 2 | Raju Lakkabattula | Assistant Professor | Electrical Engineering | Vidya Jyothi Institute of Technology | Aziz Nagar, Cb Post Hyderabad | Telangana |
| 3 | Naga Malleswara Rao A | Assistant Professor | Electrical & Electronics Engineering | Sri Indu College of Engineering and Technology | Sheriguda Ibrahimpatnam R. R Dist. Hyderabad Telangana | Telangana |
| 4 | Dr. K. Shashidhar Reddy | Professor | Electrical & Electronics Engineering | CVR College of Engineering | Mangalpally, Ibrahimpatnam Hyderabad | Telangana |
| 5 | Dr. M. Lakshmi Swarupa | Professor | Electrical & Electronics Engineering | CVR College of Engineering | Mangalpalli (V), Ibrahimpatnam, Pocharam, Hyderabad | Telangana |
| 6 | Narmada B | Assistant Professor | Electrical & Electronics Engineering | G. Narayanamma Institute Of Technology & Science. | Shaikpet, Hyderabad | Telangana |
| 7 | Ch. Lokeshwar Reddy | Professor | Electrical & Electronics Engineering | CVR College of Engineering | Mangalpally(V), Inrahimpatnam (M), Ranga Reddy | Telangana |
| 8 | Dr. K. Shiva Rama Krishna | Associate Professor | Electrical & Electronics Engineering | J.B. Institute of Engineering and Technology | Yenkapally, Bhaskar Nagar, Moinabad Hyderabad | Telangana |

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|----|--------------------------|---------------------------------|--------------------------------------|---|---|----------------|
| 9 | Chaluvaji Shashidhar | Associate Professor | Electrical & Electronics Engineering | Auroras Engineering College, Abids | Abids, Hyderabad | Telangana |
| 10 | Anil Gunde | Assistant Professor | Electrical Engineering | CMR College Of Engineering & Technology | Kandlakoya, Medchal Road, Hyderabad | Telangana |
| 11 | Dr. M. Aruna Bharathi | Professor | Electrical & Electronics Engineering | Geethanjali College of Engineering & Technology | Cheeryal, Keesara, Hyderabad | Telangana |
| 12 | Yerrabelli Prathap Kumar | Assistant Professor | Electrical & Electronics Engineering | Priyadarshini Institute of Science And Technology For Women | Saiprabhath Nagar, Khammam Dist- | Telangana |
| 13 | Vishakha Tarange | Assistant Professor | Electrical Engineering | AISSMS College of Engineering Pune | Kennedy Road, Pune | Maharashtra |
| 14 | Shweta Lengade | Assistant Professor | Electrical Engineering | AISSMS College of Engineering Pune | Kennedy Road, Pune | Maharashtra |
| 15 | Talla Venu Gopal | Assistant Professor | Electrical Engineering | Sri Indu College of Engineering & Technology | Sheriguda, Ibrahimpatnam, Hyderabad | Telangana |
| 16 | Talari Manohar | Assistant Professor | Electrical & Electronics Engineering | Anantha Lakshmi Institute of Technology And Sciences | Itikalapalli, Near Sk University, Ananthapuramu | Andhra Pradesh |
| 17 | Padmaja Sankala | Assistant Professor | Electrical Engineering | AISSMS College of Engineering | Kennedy road , Pune | Maharashtra |
| 18 | Dr. Rimi Paul | Assistant Professor | Electrical Engineering | Aliah University | Action Area IIA/27, New Town Kolkata | West Bengal |
| 19 | Dr.T. Charan Singh | Associate Professor and HOD EEE | Electrical & Electronics Engineering | Swarna Bharathi Institute Of Science And Technology | Pakabanda Bazar, Khammam | Telangana |
| 20 | Sumalatha Kalakotla | Assistant Professor | Electrical & Electronics Engineering | University College Of Engineering | Kottagudem | Telangana |
| 21 | Dr. Syed Suraya | Associate professor | Electrical & Electronics Engineering | Gates Institute Of Technology | Gooty | Andhra Pradesh |



DIRECTOR

1st Week Schedule

| Date | 10.00 to 11.30 | | 11.45 to 1.15 | 2.00 to 3.30 | 3.45 to 5.15 | |
|---------------------------------------|--|--|---|--|---|--|
| 01-03-2021 Monday | Inaugural Section | Overview of Power Systems By Dr. K. Uma Rao Prof. of EEE RVR College of Engineering Bangalore umarao_k@yahoo.co.in | Overview of Power Systems By Dr. K. Uma Rao Prof. of EEE RVR College of Engineering Bangalore umarao_k@yahoo.co.in | Wind Energy Scenario in India By Dr. Y. Pradeep Associate Professor, Dept. of EEE IITH ypradeep@ee.iith.ac.in | Wind Energy Scenario in India By Dr. Y. Pradeep Associate Professor, Dept. of EEE IITH ypradeep@ee.iith.ac.in | |
| 02-03-2021 Tuesday | Hydro Electric Power Stations By Dr.V. Rajgopal Professor, EEE department, KITS, Warangal vrg.eee@kitsw.ac.in 9392114063 | | Voltage and Frequency Controllers for Isolated Asynchronous Generators in Small Hydro Power generation By Dr. V. Rajgopal Professor, EEE department, KITS, Warangal vrg.eee@kitsw.ac.in , 9392114063 | Thermal Power Stations By Dr. Y. Chandra Shekar Associate Professor, Dept. of EEE. NIT Warangal chandrayammani@nitw.ac.in, chandrayamani@gmail.com 8332969290 | Thermal Power Stations By Dr. Y. Chandra Shekar Associate Professor, Dept. of EEE. NIT Warangal chandrayammani@nitw.ac.in , chandrayammani@gmail.com 8332969290 | |
| 03-03-2021 Wednesday | Energy Scenario By Dr. K.V. Sharma Retd. Professor, Mechanical Engineering, JNTUHCEH kvsharmajntu@jntuh.ac.in kvsharmajntu@gmail.com | | Introduction to RES By Dr. K.V. Sharma Retd. Professor, Mechanical Engineering, JNTUHCEH kvsharmajntu@jntuh.ac.in kvsharmajntu@gmail.com | Modern Distribution Systems By Dr. K. Uma Rao Prof. of EEE RVR College of Engineering Bangalore umarao_k@yahoo.co.in | Modern Distribution Systems By Dr. K. Uma Rao Prof. of EEE RVR College of Engineering Bangalore umarao_k@yahoo.co.in | |
| 04-03-2021 Thursday | Solar PV Project Planning, Installation & Commissioning Techniques - Funding options By Dr. N. Ramachander Professor, Dept. of EEE, BVRIT, Hyderabad ramchander.nirudi@bvr.it.ac.in 9247798832 | | Solar PV Project Planning, Installation & Commissioning Techniques - Funding options By Dr. N. Ramachander Professor, Dept. of EEE, BVRIT, Hyd. ramchander.nirudi@bvr.it.ac.in 9247798832 | Hot Topics in Teaching By Dr. K. Ruth Nischala Director, Majesty Institute of English Studies, Hyderabad nischalavijay@gmail.com 929295 | Hot Topics in Teaching By Dr. K. Ruth Nischala Director, Majesty Institute of English Studies, Hyderabad nischalavijay@gmail.com | |
| 05-03-2021 Friday | Fundamentals of Solar Energy By Dr. K.V. Sharma Retd. Professor, Mechanical Engineering, JNTUHCEH kvsharmajntu@jntuh.ac.in kvsharmajntu@gmail.com | | Applications of Solar Energy By Dr. K.V. Sharma Retd. Professor, Mechanical Engineering, JNTUHCEH kvsharmajntu@jntuh.ac.in kvsharmajntu@gmail.com | Solar PV System Design By Sushmita Sarkar Assistant Professor, Professor, Dept. of EEE, RV College of Engineering, Bangalore sushmitasarkar@rvce.edu.in , 6360024900 | Solar PV System Design By Sushmita Sarkar Assistant Professor, Professor, Dept. of EEE, RV College of Engineering, Bangalore sushmitasarkar@rvce.edu.in , 6360024900 | |
| 06-03-2021 Saturday | DER & their location & Sizing using Heuristic Optimization Techniques By Dr. M. Sailaja Kumari Professor & Head, Dept. of EEE, NIT Warangal sailaja@nitw.ac.in 9849034581 | | DER & their location & Sizing using Heuristic Optimization Techniques By Dr. M. Sailaja Kumari Professor & Head, Dept. of EEE, NIT Warangal sailaja@nitw.ac.in 9849034581 | Plagiarism: Types, issues and consequences, Software tools for plagiarism check" and "Empowering Access to Research-Altmetrics By Dr. T.R. Vijayalaxmi Associate Professor, Dept. of ECE, MGIT, Hyderabad | Plagiarism: Types, issues and consequences, Software tools for plagiarism check" and "Empowering Access to Research-Altmetrics By Dr. T.R. Vijayalaxmi Associate Professor, Dept. of ECE, MGIT, Hyderabad | |

TEA BREAK

LUNCH BREAK

TEA BREAK

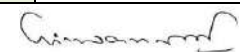
2nd Week Schedule

| Date | 10.00 to 11.30 | 11.45 to 1.15 | 2.00 to 3.30 | 3.45 to 5.15 |
|---------------------------------------|---|---|---|---|
| 08-03-2021 Monday | Distributed Generation & Economic Aspects in Power Systems By Dr. Y. Chandra Shekar Associate Professor, Dept. of EEE. NIT Warangal chandrayammani@nitw.ac.in, chandrayammani@gmail.com 8332969290 | Distributed Generation & Economic Aspects in Power Systems By Dr. Y. Chandra Shekar Associate Professor, Dept. of EEE. NIT Warangal chandrayammani@nitw.ac.in, chandrayammani@gmail.com 8332969290 | Calculation of Inductance and Capacitance By Dr. E. Vidya Sagar Vice Principal UCE, Professor of EE, University College of Engineering, Osmania University, viceprincipalouce@gmail.com 9885256268 | Calculation of Inductance and Capacitance By Dr. E. Vidya Sagar Vice Principal UCE, Professor of EE, University College of Engineering, Osmania University, vidyasagar@osmania.ac.in 9885256268 |
| 09-03-2021 Tuesday | Solar PV System Design By Dr. Sushmita Sarkar Associate Professor, Dept. of EEE, RV College of Engineering, Bangalore sushmitasarkar@rvce.edu.in 6360024900 | Load flow analysis By Dr. Sushmita Sarkar Associate Professor, Dept. of EEE, RV College of Engineering, Bangalore sushmitasarkar@rvce.edu.in 6360024900 | RES & Grid Integration Smart Grid in Distribution By Dr. Suresh Faculty in Power System Training Institute (PSTI), Bangalore vsuresh.npti@gov.in sureshbabu27@gmail.com , 9886441203 | RES & Grid Integration Smart Grid in Distribution By Dr. Suresh Faculty in Power System Training Institute (PSTI), Bangalore vsuresh.npti@gov.in 9886441203 |
| 10-03-2021 Wednesday | Economic Operation of Distributed Generation in active Distribution Systems By Dr. Venkat Ramana Professor of EEE, SR Engineering College, dr.vvr.research@gmail.com 8500962470 | Economic Operation of Distributed Generation in active Distribution Systems By Dr. Venkat Ramana Professor of EEE, SR University, Warangal dr.vvr.research@gmail.com 8500962470 | Optimal Operation of Power Systems with Conventional & Renewable Energy Sources By Dr. S. Surrender Reddy Associate Professor, Dept. of Rail road & Electrical Engineering Woosong University, Republic of Korea surender@wsu.ac.kr , 821096741985 | Optimal Operation of Power Systems with Conventional & Renewable Energy Sources By Dr. S. Surrender Reddy Associate Professor, Dept. of Rail road & Electrical Engineering Woosong University, Republic of Korea surender@wsu.ac.kr , 821096741985 |
| 12-03-2021 Friday | Importance of PQ in Power Distribution Systems By Dr. M.S Aspalli Professor, Dept. of EE, Gulbarga maspalli@gmail.com 9449618898 | Importance of PQ in Power Distribution Systems By Dr. M.S Aspalli Professor, Dept. of EE, Gulbarga maspalli@gmail.com 9449618898 | Best Practices in Operation & Maintenance of Solar PV Plants with Case Study By Dr. N. Ramachander Professor, Dept. of EEE, BVRIT, Hyderabad ramchander.nirudi@bvr.it.ac.in 9247798832 | Best Practices in Operation & Maintenance of Solar PV Plants with Case Study By Dr. N. Ramachander Professor, Dept. of EEE, BVRIT, Hyderabad ramchander.nirudi@bvr.it.ac.in 9247798832 |
| 15-03-2021 Monday | Solar & Wind Energy Conversion Systems By Dr. G. Tulasi Ram Das Retd. Professor, Dept. of EEE, JNTUHCEH, Hyderabad das_tulasiram@yahoo.co.in , 9866234645 | Solar & Wind Energy Conversion Systems By Dr. G. Tulasi Ram Das Retd. Professor, Dept. of EEE, JNTUHCEH, Hyderabad das_tulasiram@jntuh.ac.in , 9866234645 | Smart grid - Data Analytics By Dr. R. Gnanadass BOYSCAST Fellow Professor of EE, Pondicherry University gnanadass@pec.edu 9443084441 | Smart grid - Data Analytics By Dr. R. Gnanadass BOYSCAST Fellow Professor of EE, Pondicherry University gnanadass@pec.edu 9443084441 |
| 16-03-2021 Tuesday | Cyber Crimes, Security & Forensics By Sri. U. Ram Mohan IPS SP, Cyber Crimes in CID, Amaravathi, A.P | Cyber Crimes, Security & Forensics By Sri. U. Ram Mohan IPS SP, Cyber Crimes in CID, Amaravathi, A.P | Exam | Valedictory |

TEA BREAK

LUNCH BREAK

TEA BREAK



DIRECTOR

| S. No. | Title of the Programme | Schedule | Sponsored by | No. of Days | No. of Participants registered |
|--------|---|--------------------------|--------------|-------------|--------------------------------|
| 1 | Two-week Online Refresher Course on "Power Systems" | 01-03-2021 to 16-03-2021 | UGC | 12 | 21 |

Photo:

