

DECLARATION

The Information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the Course. If selected, I shall attend the course definitely for the entire duration. I also undertake the responsibility to inform the Director, UGC-Human Resource Development Centre, JNTUH, sufficiently in advance (at least one week), in case I am unable to attend the Course.

Place :

Date :

Signature of the Applicant
Name:

SPONSORSHIP CERTIFICATE

Certified that _____ is a regular employee of our institution since _____, and is hereby sponsored for the Refresher Course on “**Advances in Thermal Engineering**”, at UGC-Human Resource Development Centre, JNTU Hyderabad during the period **14-10-2019 to 26-10-2019**. From the year _____, our College is affiliated to _____ University, which is approved by the UGC. Our College is (included / not included) under 2(f) & 12(b) of UGC act. He /She will be permitted to attend the course without fail, if selected.

Signature of the Registrar /
Principal / Director with Seal

Place:

Date :

Note to Sponsoring Authority:

- It is mandatory that the sponsored teachers, if **selected**, should be deputed for the Course.

Financial Assistance:

The outstation teacher-participants may be paid upto a limit of A/C III tier railway fare (all trains) or A/C deluxe bus fare **on production of tickets**.

Accommodation:

Accommodation will be provided to the non-local participants at University Guest House of JNTUH, Kukatpally, Hyderabad.

Venue:

UGC-Human Resource Development Centre, JNT University Hyderabad, Kukatpally, Hyderabad - 500 085.

Important Dates:

Last date for Receipt of Application : **05-10-2019**
at UGC - HRDC, JNTUH, Hyderabad

Intimation of Selection to the : **07-10-2019**
candidates through e-mail/web/letter

Confirmation by Participants : **09-10-2019**
by e-mail / FAX / Letter

Course Commencement : **14-10-2019**

Note: Participants are requested to look into website regularly for Selection List and for any other important information. **Even if the hard copy of the selection letter is not received by the selected participant, web information can be taken as authentic and he / she can attend the Course by producing the relieving letter from the concerned authorities.**

Address for all Correspondence:

Dr. G.K. Viswanadh
Director, UGC – Human Resource Development
Centre, JNTU Hyderabad
Kukatpally, Hyderabad - 500 085
Telangana State, INDIA.

040- 23151610

040 - 23158661-4 Extn. 2310 / 2316 / 2312 / 2313

Mobile: 8008103814 (All working days from 10.30 am to 5.00 pm only)

e-mail: directorhrdcjntuh@jntuh.ac.in

web: www.jntuhhrdc.in

Refresher Course on “Advances in Thermal Engineering”

(14-10-2019 to 26-10-2019)

Sponsored by
University Grants Commission

Coordinators

Dr. P. Bhramara

Professor, Dept. of Mech. Engg.,
&

Dr. A.V.S.S.K.S. Gupta

Professor, Dept. of Mech. Engg.,

**JNTUH College of Engineering Hyderabad
Kukatpally, Hyderabad, T.S.**

Organized by



UGC-HUMAN RESOURCE DEVELOPMENT CENTRE
Jawaharlal Nehru Technological University Hyderabad
Kukatpally, Hyderabad - 500 085
Telangana State,INDIA

Introduction:

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.

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.

The Refresher Course will enable the teachers to:

- Provide opportunities for teachers in service, to exchange experience with their peers and learn mutually from each other;
- Provide a forum for serving teachers to keep themselves abreast of the latest advances in various subjects;
- Create the culture of learning and self improvement among the teachers;
- Provide opportunities to further widen their knowledge and to pursue research studies, and
- Give an introduction to new methods and innovations in higher education and enlighten them so that the participants can in turn develop their own innovative methods of instruction.

During the current academic year 2019-2020, a Two-Week Refresher Course on “**Advances in Thermal Engineering**” is proposed to be organized during **14-10-2019 to 26-10-2019**, in the campus of JNT University Hyderabad. The number of participants is limited to a maximum of 40, and the selection will be based on the priority of ‘first -come-first-serve’.

Eligibility:

- **Faculty members working in universities and colleges** that are included under Section 2(f) of the UGC Act, even though they may not yet be fit under Section 12 (B), may be invited to participate in the orientation and refresher courses. The teachers of colleges that do not yet come within the purview of Section 2(f), but have been affiliated to a university for at least five years, will be permitted to participate in the courses.
- **Faculty from the departments of Mechanical Engg., and other allied branches of Mechanical Engineering, Metallurgical Engg., and Chemical Engg.**
- Teachers have to be sponsored by the concerned Principal of the College / Head of the Institution for considering the participation in the Course.
- Part-Time/Adhoc/Temporary/Contract teachers who have been teaching for at least three academic sessions in an Institution which has been affiliated to a University for at least two years may be permitted to participate in the Course.

Registration Fee:

Every Teacher Participant shall pay an admission fee (non-refundable) of Rs. 1000/- through online payment mode.

How to Apply:

The faculty members desirous of attending the program are requested to register their details in online mode at **www.jntuhhrdc.in**

The filled-in application form duly signed by the participant and forwarded by the Head of the Institution should be submitted to The Director, UGC-HRDC, JNTUH, on the day of program commencement i.e., on 14-10-2019.

Confirmation by Participants:

Confirmation by Participants is a must, as per the date specified overleaf. If the confirmed number of participants is less than 30, the course may be re-scheduled.

Main Subject Contents:

- ✓ **Thermodynamics, Fluid Mechanics, Heat and Mass Transfer**
- ✓ **Multiphase and phase change phenomena**
- ✓ **Combustion and fuels**
- ✓ **Developments in Automotive Field**
- ✓ **CFD and tools in thermal science**
- ✓ **Thermal Management, Thermal Measurement and Controls**
- ✓ **Advances in aerospace technology, Gas Dynamics**
- ✓ **Energy Science and Engineering**
- ✓ **Refrigeration and Air Conditioning**
- ✓ **Micro and nano system in Thermal Engineering**
- ✓ **Interdisciplinary areas of Thermal Science and Engineering**

** Contents may vary slightly.*

Note:

During the course, each teacher-participant will be required to present a seminar presentation and also work on a mini project on important topics related to the theme of this course.

Faculty:

Resources persons are drawn from different Universities, NITs and IITs and R & D Organizations.

APPLICATION FORM
Refresher Course on
“Advances in Thermal Engineering”

- Name:
- Date of Birth & Age:
- Gender (M / F):
- Qualifications:.....
- Category: SC/ST/OBC/Any other.
- Teaching Experience:.....
- a) Designation :
b) Department:
c) Pay Scale & Present Basic :
- a) Institution :
b) Affiliating University:
- Whether your University/College is included under 2(f) & 12 (B) of UGC act: YES / NO
- Address for Communication:
.....
.....
.....
- College Address:
.....
.....
- Phones Nos:
(O)..... (R).....
MOBILE:..... Fax:.....
E - mail ID:
- D.D.No., Date and Bank details:
.....
- Nearest Railway Station :.....
- Accommodation Required? YES / NO
- Previous Participation in UGC-HRDC Orientation & Refresher Courses:

S. No	Course Title	Date	Place

Phone: 040-23151610
Fax: 040-23156795
Web : www.jntuhrdc.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

Lr. No. JNTUH/UGC-HRDC/RC-ATE/2019-20

Date: 14-11-2019

Dear Participants,

Sub: UGC-HRDC, JNTUH, Hyderabad – Refresher Course on “Advances in Thermal Engineering” from 18-11-2019 to 30-11-2019 – Selection for attending the Programme– Intimation – Reg.

This is with reference to your hardcopy/online application expressing interest in participating in the Refresher Course on “Advances in Thermal Engineering” organized by the UGC Human Resource Development Centre, JNT University Hyderabad. We are happy to inform that, you have been provisionally selected for the above Course to be organized from 18-11-2019 to 30-11-2019.

Participants should submit the Relieving letter from the Head of the Institution at the time of Registration. The attendance for all the sessions is mandatory. If any participant is absent for the sessions during the course period, he/she has to attend the similar number of hours in the next programme to complete the course. The certificates will be issued to those participants who attend all the sessions.

The course is scheduled from 10.00 AM on 18th November, 2019, at UGC Human Resource Development Centre, JNT University Hyderabad, Kukatpally, Hyderabad – 500 085. You are requested to report at 9.30 A.M. on 18-11-2019 for registration. Looking forward to meet you on 18-11-2019.

Yours sincerely

DIRECTOR

Refresher Course on
“Advances in Thermal Engineering”
 (18-11-2019 to 30-11-2019)

List of selected participants:

S No	Name of the Candidate	Designation	Dept.	College	Address
1	Bhasker Bommera	Assistant Professor	Mechanical Engineering	Gheethanjali College of engineering and Technology	Keesara, Hyderabad, T.S.
2	D S V J P Koteswari	Assistant Professor	Chemical Engineering	Rajiv Gandhi University of Knowledge Technologies-R K VALLEY	Rajiv Knowledge Valley Vempalli Mandalam, Kadapa District, A.P.
3	Jadi Sumalatha	Assistant Professor	Mechanical Engineering	Gheethanjali College of engineering and Technology	Keesara, Hyderabad, T.S.
4	Akshatha Sharma Tatabhatla	Assistant Professor(Contract)	Mechanical Engineering	JNTUH COLLEGE OF ENGINEERING Hyderabad	Kukatpally, Hyderabad, T.S.
5	Bharath Kumar	Assistant Professor	Mechanical Engineering	Annamacharya Institute of Technology and Sciences	Hayath Nagar, Hyderabad, T.S.
6	Kolluri Venkateswara Rao	Assistant Professor	Mechanical Engineering	CMR Institute of Technology	Kandlakoya, Medchal Dist., T.S.
7	Mahender Thotakuri	Assistant Professor	Mechanical Engineering	CMR Institute of Technology	Kandlakoya, Medchal Dist., T.S.
8	Mangeelal Dharavath	Associate Professor	Mechanical Engineering	Malla Reddy College of Engineering & Technology	Maisammaguda, Dhulapally, Secunderabad
9	Manojkumar Udgire	Assistant Professor	Mechanical Engineering	Hyderabad Institute of Technology and Management	Gowdavelly (V), Medchal, R.R. Dist., T.S.
10	Midde Laxmi Prasad	Assistant Professor	Mechanical Engineering	Mother Teresa Institute of Science & Technology	Sathupally, T.S.
11	Parakala Sreenivasulu	Assistant Professor	Mechanical Engineering	Annamacharya Institute of Technology and Sciences	Piglipur, Batasingaram(V), Hayathnagar, Hyderabad, T.S.
12	Pasula Rukmini	Academic Consultant	Mechanical Engineering	KU College of Engineering and Technology	Kakatiya University, Vidyananyapuram, Hanamkonda, Warangal, T.S.
13	PVN Saichandu	Assistant Professor	Mechanical Engineering	Hyderabad Institute of Technology and Management	Gowdavelly (V), Medchal, R.R. Dist., T.S.
14	Suresh Devunuri	Assistant Professor	Automobile Engineering	VNR VJIET	Bachupally, Kukatpally, Hyderabad, T.S.
15	Suresh Grandhi	Assistant Professor	Mechanical Engineering	ICFAI Foundation for Higher Education	Dontanapally, Shankarapally road, Hyderabad, T.S.
16	Suresh Yadav Gosula	Assistant Professor	Mechanical Engineering	ACE Engineering College	Ghatkesar, Medchal, Hyderabad, T.S.

S No	Name of the Candidate	Designation	Dept.	College	Address
17	Tadepalli Aravind	Assistant Professor	Mechanical Engineering	Sri Indu College of Engineering & Technology	Sheriguda (V), Ibrahimpatnam (M), Hyderabad, T.S.
18	Venuprasad Ande	Assistant Professor	Mechanical Engineering	Institute of Aeronautical Engineering	Dundigal, Hyderabad, T.S.
19	Pande Geetha	Assistant Professor	Mechanical Engineering	TKR College of Engineering & Technology	Medbowli, Meerpet, Hyderabad, T.S.
20	Santhisree Nerella	Assistant Professor	Mechanical Engineering	Institute of Aeronautical Engineering	Dundigal, Hyderabad, T.S.

Note:

- The participants who have not submitted the original application through proper channel along with Registration fee are requested to submit at the time of Registration on 18-11-2019.
- No Dearness Allowance will be paid to the participants; however local hospitality will be arranged by HRDC to all the participants.



**DIRECTOR
UGC-HRDC, JNTUH**

UGC-Human Resource Development Centre, JNTUH

UGC-sponsored Two Weeks Refresher Course on **“Advances in Thermal Engineering”**

(18-11-2019 to 30-11-2019) 1st Week Time Table

Date	10.00 to 11.30			11.45 to 1.15		2.00 to 3.30		3.45 to 5.15
18-11-2019 Monday	Registration & Inaugural Session	Nanofluids – Preparation and Applications by Dr. K V Sharma Professor, CES JNTUHCEH	TEA BREAK	Nanofluids – Preparation and Applications by Dr. K V Sharma Professor, CES JNTUHCEH	Lunch Break	Advances in Thermal Power Plants by Dr. K Raghavendra Rao BHEL R & D	TEA BREAK	Advances in Thermal Power Plants by Dr. K Raghavendra Rao BHEL R & D
19-11-2019 Tuesday	Human Values in Academic Institutions By Dr. Pradeep Kumar Ramancherla Professor of Civil Engineering & Registrar, IITH, Hyderabad			Human Values in Academic Institutions By Dr. Pradeep Kumar Ramancherla Professor of Civil Engineering & Registrar, IITH, Hyderabad		Research Methodology in R and AC by Dr. Suresh Akella Retd GM, TDC, Tecumseh		Bloom’s Taxonomy Applied to Compressor Design by Dr. Suresh Akella Retd GM, TDC, Tecumseh
20-11-2019 Wednesday	Flow through Centrifugal Compressors by Dr. P Ushasri Professor of MED, OU			Flow through Axial Compressors by Dr. P Ushasri Professor of MED, OU Hyderabad		Energy and Environment by Dr. V Himabindu IST, JNTUH		Hydrogen Energy by Dr. V Himabindu IST, JNTUH
21-11-2019 Thursday	Optimization of Thermal Systems by Dr M Indira Rani Professor, Dept. of Mech. Engg., JNTUHCEH			Experiments in Fluid Mechanics - Approaches, objectives, key principles, analysis By Dr. Badarinath Karri Associate Professor Dept. of Mech and Aerospace Engg IITH, Hyderabad		Specific experimental research in bubble dynamics - applications of high-speed imaging technique By Dr. Badarinath Karri Associate Professor Dept. of Mech and Aerospace Engg IITH, Hyderabad		Mathematical Modeling and its importance By Dr. P. Bhamara Professor, Dept. of M.E., JNTUHCEH, Hyderabad
22-11-2019 Friday	Design Modifications in SI Engines to use Hydrogen as Fuel by Dr. Nawazish Mehdi Retd Prof of MED, MJ College of Engg			Design Modifications in CI Engines to use Hydrogen as Fuel by Dr. Nawazish Mehdi Retd Prof of MED MJ College of Engg		Hybrid Model of classic thermodynamic Model and machine learning Models by Mr. Ch. Surya Prakash Mobile: 99899 28156		Finite Difference Method Dr A V S S K S Gupta Professor JNTUHCEH Mobile: 98494 27331 Mail: avsgupta@gmail.com
23-11-2019 Saturday	Funding Opportunities to Indian Scholars & Abstract Writing by Dr K Venkateswara Rao Professor, Centre for Nano Science & Technology IST, JNTUH			Nanofluids by Dr K Venkateswara Rao Professor, Centre for Nano Science & Technology IST, JNTUH		Hands on Session on ANSYS-CFX by Mr. Ravinder Innovent Technologies Hyderabad		Hands on Session on ANSYS-CFX by Mr. Ravinder Innovent Technologies Hyderabad

UGC-Human Resource Development Centre, JNTUH

UGC-sponsored Two Weeks Refresher Course on “**Advances in Thermal Engineering**”

(18-11-2019 to 30-11-2019) **2nd** Week Time Table

Date	10.00 to 11.30		11.45 to 1.15		2.00 to 3.30		3.45 to 5.15
25-11-2019 Monday	Impact of Energy Source on Electric Vehicle Emissions by Dr T Bhaskar Professor, MahidraEcole	TEA BREAK	Fuel Economy Improvements in IC Engines to meet Future Regulations by Dr T Bhaskar Professor, MahidraEcole	Lunch Break	Energy Auditing, Energy Management with Industry Case Studies by Sri Rahul Raju D Associate Fellow, Certified Energy Auditor TERI, Bangalore	TEA BREAK	Perform Achieve Trade (PAT) Mechanism and its outcomes till date By Sri Rahul Raju D Associate Fellow, Certified Energy Auditor TERI, Bangalore
26-11-2019 Tuesday	Mixed Convection by Dr. C Gururaja Rao Professor, Vasavi College of Engineering Hyderabad		Conjugate Mixed Convection together with Radiation by Dr. C Gururaja Rao Professor, Vasavi College of Engineering Hyderabad		World and Indian Research Scenario by Dr. T Kishen Kumar Reddy Retd Professor of Mech. Engg Dept., JNTUHCEH, Hyderabad		Real Thermodynamics by Dr. T Kishen Kumar Reddy Retd Professor of Mech. Engg Dept., JNTUHCEH, Hyderabad
27-11-2019 Wednesday	Thermal Engineering Applications in Missile Design by Dr. Srinivasa Rao DRDO, Hyderabad		Thermal Engineering Applications in Missile Design by Dr. Srinivasa Rao DRDO, Hyderabad		Seminar Presentations by the Participants (S. No. 1 to 13) <u>Expert</u> Dr. Narsimhulu Sanke Professor, Dept. of M.E., OU, Hyderabad		Seminar Presentations by the Participants <u>Expert</u> Dr. Narsimhulu Sanke OU, Hyderabad
28-11-2019 Thursday	Seminar Presentations by the Participants (S. No. 14 to 19) <u>Expert</u> Dr. Umamaheshwar Professor, Dept. of M.E., OU, Hyderabad		Micro Teaching Evaluation <u>Expert</u> Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad		Micro Teaching Evaluation <u>Expert</u> Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad		Micro Teaching Evaluation <u>Expert</u> Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad
29-11-2019 Friday	Overview of Heat Transfer Enhancement Technologies by Dr K V Sharma Professor, Dept. of ME, JNTUHCEH		Policy Level Changes and Initiatives by Gol in Implementation of Energy Conservation Act by Mr. Rajanikanth NPC, Hyderabad		Design of Combined Cycle Power Plant for 450 MW using BIM Based Approach by Dr. Satish Kumar Cyient, Hyderabad		Design of Combined Cycle Power Plant for 450 MW using BIM Based Approach by Dr. Satish Kumar Cyient, Hyderabad
30-11-2019 Saturday	Fuel cell Technology and Applications by Dr. Naga Srinivasulu NIT Warangal		Fuel cell Technology and Applications by Dr. Naga Srinivasulu NIT Warangal		Advances in IC Engines by Dr. A. V. Sitarama Raju Professor, Dept. of M.E JNTUHCEH, Hyderabad		Valedictory Session

UGC-Human Resource Development Centre, JNTUH

UGC-sponsored Two Weeks Refresher Course on “**Advances in Thermal Engineering**”

(18-11-2019 to 30-11-2019) **2nd Week Time Table**

Date	10.00 to 11.30		11.45 to 1.15		2.00 to 3.30		3.45 to 5.15
25-11-2019 Monday	Impact of Energy Source on Electric Vehicle Emissions by Dr T Bhaskar Professor, MahidraEcole	TEA BREAK	Fuel Economy Improvements in IC Engines to meet Future Regulations by Dr T Bhaskar Professor, MahidraEcole	Lunch Break	Energy Auditing, Energy Management with Industry Case Studies by Sri Rahul Raju D Associate Fellow, Certified Energy Auditor TERI, Bangalore	TEA BREAK	Perform Achieve Trade (PAT) Mechanism and its outcomes till date By Sri Rahul Raju D Associate Fellow, Certified Energy Auditor TERI, Bangalore
26-11-2019 Tuesday	Mixed Convection by Dr. C Gururaja Rao Professor, Vasavi College of Engineering Hyderabad		Conjugate Mixed Convection together with Radiation by Dr. C Gururaja Rao Professor, Vasavi College of Engineering Hyderabad		World and Indian Research Scenario by Dr. T Kishen Kumar Reddy Retd Professor of Mech. Engg Dept., JNTUHCEH, Hyderabad		Real Thermodynamics by Dr. T Kishen Kumar Reddy Retd Professor of Mech. Engg Dept., JNTUHCEH, Hyderabad
27-11-2019 Wednesday	Thermal Engineering Applications in Missile Design by Dr. Srinivasa Rao DRDO, Hyderabad		Thermal Engineering Applications in Missile Design by Dr. Srinivasa Rao DRDO, Hyderabad		Seminar Presentations by the Participants Expert Dr. Narsimhulu Sanke Professor, Dept. of M.E., OU, Hyderabad		Seminar Presentations by the Participants Expert Dr. Narsimhulu Sanke OU, Hyderabad
28-11-2019 Thursday	Seminar Presentations by the Participants Expert Dr. Umamaheshwar Professor, Dept. of M.E., OU, Hyderabad		Micro Teaching Evaluation Expert Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad		Micro Teaching Evaluation Expert Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad		Micro Teaching Evaluation Expert Dr. G.L.K. Durga Retd. Principal, AMS Arts & Science College, Hyderabad
29-11-2019 Friday	Overview of Heat Transfer Enhancement Technologies by Dr K V Sharma Professor, Dept. of ME, JNTUHCEH		Policy Level Changes and Initiatives by Gol in Implementation of Energy Conservation Act by Mr. Rajanikanth, NPC		Design of Combined Cycle Power Plant for 450 MW using BIM Based Approach by Dr. Satish Kumar, Cyient		Design of Combined Cycle Power Plant for 450 MW using BIM Based Approach by Dr. Satish Kumar, Cyient
30-11-2019 Saturday	Fuel cell Technology and Applications by Dr. Naga Srinivasulu NIT Warangal		Fuel cell Technology and Applications by Dr. Naga Srinivasulu NIT Warangal		Advances in IC Engines by Dr. A. V. Sitarama Raju Professor, Dept. of M.E JNTUHCEH, Hyderabad		Valedictory Session

Name of the Course	Schedule	No. of days	Sponsored by	No. of Participants
Refresher Course - Drug Discovery and Formulation Development - Clinical Approach to Health Care	20.05.2019 to 01.06.2019	12	UGC	38

Group Photo

