

# One Week AICTE-ISTE Online Refresher Program on

## 'Thermal Engineering' (Phase-3)

22/04/2021 to 28/04/2021

Sponsored by AICTE-ISTE, New Delhi

Proceedings of Phase-3



ESTD: 1986



Organized by

## Department of Mechanical Engineering

### Kalpataru Institute of Technology

(Affiliated to VTU, Belagavi and Recognized by AICTE, New Delhi)

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### Treasurer



Sri. T S Shivaprasad

Refresher Program on  
**'Thermal Engineering' (Phase-3)**  
**22/04/2021 to 28/04/2021**  
Organized by



**Department of Mechanical Engineering**  
Kalpataru Institute of Technology  
Tiptur, Karnataka-572 201

**Program Coordinator**

Dr. Viswanatha B M  
Professor & HOD  
Department of Mechanical Engg

**Convenor**

Dr. G D Gurumurthy  
Principal  
KIT, Tiptur

## **Acknowledgement**

We express our sincere gratitude to **Sri P K Thipperudrappa**, President, KVS, Tiptur, all office bearers and **Dr. Gurumurthy**, Principal, KIT, Tiptur for their constant support and encouragement in conducting One Week AICTE-ISTE Refresher Program on **‘Thermal Engineering’ (Phase-3)** from 22/04/2021 to 28/04/2021.

We express our heartfelt thanks to AICTE, ISTE New Delhi and VTU Belagavi for infusing life into this One Week AICTE-ISTE Refresher Program on **‘Thermal Engineering’ (Phase-3)**.

We feel exhilarated to express our sincere thanks to the advisory committee, faculties, and the staff of KIT for their invaluable support and whole hearted cooperation right from the conceptual stage to the successful execution of this programme.

We appreciate involvement of participants and thank them for sparing their valuable time for this online session. We are sure that by participating in the session they will gain useful knowledge and innovative ideas related to thermal engineering.

We thank all others who have extended their help directly or indirectly to the success of this One Week AICTE-ISTE Refresher Program on **‘Thermal Engineering’ (Phase-3)**.

### **Program Coordinator**

Dr. Viswanatha B M  
Professor & HOD  
Department of Mechanical Engg

### **Convenor**

Dr. G D Gurumurthy  
Principal  
KIT, Tiptur



## Sri P K Thipperudrappa

President, KVS

It is pleasure that the Department of Mechanical Engineering successfully conducted One Week AICTE-ISTE Refresher Program on Thermal Engineering Phase -1&2. It provided a great platform for researchers working in thermal related areas of Mechanical Engineering. I am sure that **Phase-3** will also promote the faculties and researchers for gaining their knowledge on recent advancements in **Thermal Engineering** and bring enhancement to their career.

I wish this One Week AICTE-ISTE Refresher Program on **Thermal Engineering (Phase-3)** a great success.



## Sri. T S Shivaprasad

Treasurer, KVS

I heartily congratulate all the organizing committee members for successful completion of AICTE-ISTE Refresher Program on Thermal Engineering (Phase-1&2).

My best wishes to all the coordinators and participants for this AICTE-ISTE Refresher Program on **Thermal Engineering (Phase-3)**. I congratulate department of Mechanical Engineering for organizing this program and wish a grand success. Following the success story of **Phase 1&2**.

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**Sri. B S Umesh**  
Vice president, KVS

I am glad that, **AICTE-ISTE** Refresher Program attracts researchers and faculties from various Institutions, across the country to discuss the past drawbacks, present trends and future advancements related to **Thermal Engineering**.

I heartily congratulate all the organizing committee members for successful completion of AICTE-ISTE Refresher Program on Thermal Engineering (Phase-1&2) and wish you all the best for Phase-3.



**Sri. G S Umashankar**  
Secretary, KVS

I am very delighted to note that Departments of Mechanical Engineering is conducting **AICTE-ISTE** Refresher Program. This program is a result of continues efforts by the members of organizing committee and I extend warm greeting to them.

I whole heartedly praise the staff of Department of Mechanical Engineering for the continues efforts and support and co-operation for grand success of the event.

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**Dr. G D Gurumurthy**  
Principal  
Kalpataru Institute of Technology  
Tiptur

I am happy to note that the department of Mechanical Engineering completed One Week AICTE-ISTE Refresher Program on **Thermal Engineering (Phase-1&2)** with great pleasure. The resource persons invited were from prestigious institutions and organizations with a vast knowledge related to Thermal Engineering topics. Participants from all over India were benefitted by attending this program.

I congratulate Department of Mechanical Engineering for organizing this program and building the bridge between Professors serving in various Institutions.



**Dr. Viswanatha B M**  
Professor & Head  
Dept. of Mechanical Engg.  
KIT, Tiptur

As Department of Mechanical Engineering organized one week online **Refresher Program On Thermal Engineering (Phase-1&2)** sponsored by AICTE-ISTE, New Delhi. Several participants received certificates by completing the program successfully, followed by objective test. With the positive response and feedback from the participants, we hereby are preceding for **PHASE-3**. I hope this program shares out the knowledge to every participants and to make effective use of it. I am very much thankful to Authorities of AICTE-ISTE and resource persons, participants, office bearers of Kalpataru Vidya Samsthe and principal of esteemed organization and end this program on a happy success note.

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## **Dr.T S Kiran**

Professor

Dept. of Mechanical Engg.

KIT, Tiptur

I am happy that the Department of Mechanical Engineering KIT, Tiptur conducted AICTE-ISTE Refresher Program on **Thermal Engineering (Phase-1&2)** and was successful. I am sure that all the participants of Mechanical Engineering Department boosted their knowledge in thermal related fields and are benefitted to maximum.

As a faculty coordinator it is a great pleasure to organize **(Phase-3)** program sponsored by AICTE-ISTE New Delhi. I am seeking the same co-ordination and support from all the resource persons, participants and faculty members of Department of Mechanical Engineering. My best wishes to all the participants.

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**KALPATARU INSTITUTE OF TECHNOLOGY**  
N H 206, Tiptur – 572202



## Department of Mechanical Engineering



Invitation for Virtual Inauguration of  
One Week AICTE-ISTE Refresher Program

on

**“Thermal Engineering”**

**(Phase - 3)**

On

**April 22<sup>nd</sup> to 28<sup>th</sup>, 2021**



### Chief Guest

**: Col. B. Venkat**

Director, Faculty Development Cell, AICTE-New Delhi

### President

**: Sri. P.K.THIPPERUDRAPPA,**

President, KVS, Tiptur

### Patrons:

#### Vice Presidents, KVS

Sri. T S Basavaraju  
Sri. Bagepalli Nataraj  
Sri. G P Deepak  
Sri B S Umesh

#### Secretaries, KVS

Sri M R Sangamesh  
Sri Sudhakar H G  
Sri G S Umashankar  
Sri. T U Jagadeeshamurthy

#### Treasurer, KVS

Sri. T.S. Shivaprasad

#### Program Coordinator

Dr. Viswanatha B M, HOD,ME

#### Convener

Dr. G.D. Gurusurthy, Principal

#### Faculty coordinators:

Dr. Kiran T S, Prof. Rohith Kumar H V, Prof. Mahanthes G

***All are cordially invited***

HOD and Staffs, Department of Mechanical Engineering

Date: **April 22<sup>nd</sup>, 2021**

Time: **10 AM**

Venue: **KIT Admin block**

## **About Organizing Institute**

Kalpataru Institute of Technology (KIT) is a part of KVS, the mother institution. KIT was established in 1986 with a view to provide technical education. The college is affiliated to Visvesvaraya Technological University, Belagavi and is recognized by All India Council for Technical Education (AICTE), New Delhi. The 35 year old college has an excellent team of qualified, experienced and dedicated faculty members with the state of the art infrastructure. The college campus is located on the outskirts of the town at a distance of about 2 km. from Railway station and Bus Stand.

## **About the Department**

The Department of Mechanical Engineering was established in the year 1992 with an initial intake of 30 which further was enhanced in two stages to 60 first and then to 120. The department is currently headed by Dr. B M Viswanatha, Professor & HOD. The department has well experienced, highly qualified and committed faculty members. The department has three Professors with Ph.D degree. The Department has research center recognized by VTU Belagavi. Many faculties are pursuing Ph.D in R&D Center of the department. The R & D centre have received Rs. 20 lakhs grant to setup Tribological study research laboratory and Rs. 30 lakhs grant to set up Energy Conversion Engineering research laboratory from VGST(Vision Group of Science and Technology ) Govt. of Karnataka. The department organizes symposiums, workshops and seminars under Mechanical Engineering Association (MEA) every year.

## **About AICTE**

In accordance with the provisions of the AICTE Act (1987), for the first five years after its inception in 1988, the Minister for Human Resource Development, the Government of India, was the Chairman of the Council. The first full-time Chairman was appointed on July 2, 1993 and the Council was reconstituted in March 1994 with a term of three years. The Executive Committee was re-constituted on July 7, 1994 and All India Board of Studies and Advisory Boards were constituted in 1994-95. Regional Offices of the Ministry of Human Resource Development, the Government of India, located in Kolkata, Chennai, Kanpur, and Mumbai were

transferred to AICTE and the staff working in these offices were also deputed to the Council on foreign service terms w.e.f. October 1, 1995.

These offices functioned as secretariats of regional Committees in the four regions (North, East, West and South). Three new regional Committees in southwest, central, and northwest regions with their secretariats located in Bangalore, Bhopal, and Chandigarh, respectively, were also established on July 27, 1994. One more regional committee in South-Central region with its Secretariat in Hyderabad was notified on March 8, 2007.

## **About ISTE**

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. Being the only national organisation of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of the Union Government. The strength of ISTE is the strong base it has in technical education institutions in the country. At present, the ISTE has a very large and an effective membership base consisting of 124024 Life Members, 5 lakh Student members, 2734 Institutional Members, 1369 Faculty Chapters, 1479 Student Chapters at institutional level and 17 Sections at State level.

## **Objectives of FDP**

- To provide a platform for interaction with experts of different knowledge domains
- Faculty development programs (FDPs) have proven to be successful for improving teaching skills in higher education.
- To update the faculty members, research scholars and industry professionals about the current ongoing research in the field of Thermal Engineering and related areas.
- This FDP also helps to develop innovational thoughts, knowledge on interactions of industry and institute.
- To impart knowledge on fundamental & advanced concepts of Thermal Engineering.

**Chief Patron**

**President KVS**

Sri P. K. Thipperudrappa

**Patrons**

**Vice President KVS**

Sri. T S Basavaraju

Sri. Bagepalli Nataraj

Sri. G P Deepak

Sri B S Umesh

**Secretaries KVS**

Sri M R Sangamesh

Sri Sudhakar H G

Sri G S Umashankar

Sri. T U Jagadeeshamurthy

**Treasurer KVS**

Sri. T S Shivaprasad

**Convenor**

Dr. G D Gurumurthy

Principal, KIT, Tiptur

**Program Coordinator**

Dr. Viswanatha B M

Professor & HOD

Dept. of Mechanical Engg.

### **Advisory Committee**

Prof. Anil D. Sahasrabudhe, Chairman, AICTE, New Delhi

Dr. Karisiddappa, Vice Chancellor, VTU, Belagavi

Col. B Venkat, Director, Faculty Development cell, AICTE, New- Delhi

Prof. Vijay D. Vaidya, Executive Secretary, ISTE, New Delhi

Dr. Shrinivas S Balli, Vice Chancellor of Nrupathunga University, Bengaluru.

Dr. A S Deshpande, Registrar, VTU, Belagavi

Dr. B E Rangaswamy, Registrar (Evaluation), VTU, Belagavi

Dr. Chikkanna N, Special Officer, VTU Regional Center, Bangalore

Dr. S Basavarajappa, Registrar, IIT Dharwad

Dr. S M Shashidhara, Former Principal, KIT, Tiptur

Dr. Rangaswamy T, Principal, GEC, Mosalehosahalli

Dr H Nagabhushana Chairman & Professor Department of Studies & Research in Physics  
Tumkur University, Tumkur

Dr. V V Katti Principal, K.L.S's V.D.I.T, Haliyal

Dr. Irfan G Principal HMSIT, Tumkuru

Dr. P M Suresh ACS College of Engineering, Bangalore

Dr. Girish AMCE College, Bangalore

Dr. M Prasanna Kumar, UBDTCE-Davanagere

Dr. Mahadevaswamy P, SCE, Bangalore Dr. D P Girish, GEC, Ramanagar

Dr. B P Shikvakumar, JSSATE, Bangalore

Dr. Kanchiraya S, GEC, Hassan

Dr. Mahesh T S, GEC, Hassan

Dr. Virupaxi Auradi, SIT, Tumkur

Dr. A G Shivasiddaramaiah, SIT, Tumkur

Dr. G S Shivashankar, SIT, Tumkur

### **Program Coordinator**

Dr. Viswanatha B M

Professor & HOD

Dept. of Mechanical Engg

### **Faculty Coordinators**

Dr. Kiran T S

Prof. Rohith Kumar H V

Prof. Mahanthesh G

### **Organizing Committee**

Dr. T M Chandrashekhariah

Prof. Eswariah K S

Prof. T S Siddalingaprasad

Prof. Aradhya S M

Prof. Mallikarjuna G B

Prof. Deepak Kumar N Y

Prof. Mamata Sarangamath

Prof. Dileep H B

Prof. Sandeep K

Prof. Harikesh C R

Prof. NaveenKumari M E

Prof. Brijesh C

Prof. Ajay.C.K

Prof. Anil K

## **Resource persons**

Dr. Basavaraj Rachappa Kerur Professor of Physics, GUG.

Hari Ji,(Founder) Shoonya Foundation, Javagal

Dr. D. K. Ramesh Professor, UVCE, Bangalore.

Dr. Prashantha Basvaraja ,CFD lead Engg.Thermetics Engineering Solution, Bangalore

Dr. Basavarajappa Y H, HOD, Dept. of Mechanical Engg PESITM, Shimoga.

Dr Gnanendra P M, Assistant Professor, BMSCE, Bangalore

Dr. Banjara Kotresh Assistant Professor, GEC, Haveri

Dr. Sangamesh, Assistant Professor, BMSIT, Bangalore.

Dr. Mallikarjuna C Matt, Associate Professor, Centre for P G studies & VTURC, Kalburgi.

Dr. Ranganatha Swamy L Associate Professor, BGSIT,Adichunchanagiri University

Dr H R Purushothama, Professor & Head, SIT, Tumkur.

Dr. Venkatesh T Lamani, Assistant Professor, BMSCE, Bangalore

Dr. Kishan Naik, Assistant Professor, UBDTCE, Davanagere

Dr. Viswanatha B M, Professor & Head, KIT, Tiptur.

Nagaraja Canchi, Business development & Regularatory (Solar & Wind Power).



**One Week AICTE-ISTE Refresher Program on Thermal Engineering (Phase-3)**

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<b>Session schedules</b>				
<b>Date :22/04/2021 Thursday</b>				
<b>Sessions</b>	<b>Time</b>	<b>Resource Persons</b>	<b>Topics</b>	<b>Address</b>
1	9.30-11.00 am	Inaugural Function		
2	11.30-1.00 pm	Dr. Basavaraj Rachappa Kerur	Nuclear Energy and its applications	CEC, University of Karnataka Kadaganchi
3	2.30–4.00 pm	Dr. Viswanatha B M	Overview of Thermal Engineering	Professor & Head, KIT, Tiptur
<b>Date : 23/04/2021 Friday</b>				
1	9.30-11.00 am	Hari Ji	It's time for Devotion	Founder Shoonya Foundation Javagal
2	11.30-1.00 pm	D. K. Ramesh	Green Fuel as Alternative Fuel for CI Engine	Professor UVCE Bangalore
3	2.30 – 4.00 pm	Dr. Viswanatha B M	Vapor Power cycle	Professor & Head KIT, Tiptur
<b>Date : 24/04/2021 Saturday</b>				
1	9.30- 11.00am	Dr. Prashantha Basvaraja	Computational Cardiovascular Disease- Flow Hemodynamics	CFD leading Engg Thermetics Engg Solution
2	11.30-1.00pm	Dr.Basavarajappa Y H	DUAL fuel engines operation using gaseous and liquid biofuels	HOD, Dept. of Mechanical Engg, PESITM
3	2.30– 4.00pm	Dr. Gnanendra P M	Biomass Gasification	Asst Prof BMSCE

**One Week AICTE-ISTE Refresher Program on Thermal Engineering (Phase-3)**

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<b>Session schedules</b>				
<b>Date :26/04/2021 Monday</b>				
<b>Sessions</b>	<b>Time</b>	<b>Resource Persons</b>	<b>Topics</b>	<b>Address</b>
1	9.30-11.00 am	Dr. Banjara Kotresh	Flow and Heat Transfer through Wire Mesh Porous Media	Assistant Professor GEC, Haveri
2	11.30-1.00pm	Dr. Sangmesh	A walk to power scenario in INDIA and Significance of Renewable Energy	Assistant Professor BMSIT, Bangalore
3	2.30– 4.00 pm	Dr. Mallikarjuna C Matt	Alternative fuels for automobiles	Associate Professor, VTU Regional Center, Kalburgi
<b>Date :27/04/2021 Tuesday</b>				
1	9.30 -11.00am	Dr.Ranganatha Swamy L	Impact of Oxygenated Fuels on Diesel Engine	Associate Professor,BGSIT,
2	11.30-1.00pm	Dr.H R Purushothama	Combustion in IC Engine	Prof. & Head, SIT Tumkur
3	2.30 –4.00 pm	Dr.Venkatesh L Lamani	Impact of Energy Efficiency	Asst. Prof. BMSCE
<b>Date :28/04/2021 Wednesday</b>				
1	9.30-11.00 am	Dr.Viswanatha B M	Pure Substance, Ideal and Real Gases	Professor & Head, KIT, Tiptur
2	11.30-1.00pm	Dr.Kishan Naik	Fire Resistance	AP,UBDTCE, Davanagere
3	2.30– 4.00pm	Valedictory Function and Test		

**Speaker:**



**Dr. Basavaraj Rachappa Kerur**

**Topic:** Nuclear Energy and its applications

**Date:** 22/04/2021      **Link:** <https://meet.google.com/jtz-epvf-gso>

- Highlights:**
- Introduction to nuclear energy.
  - Various types of Nuclear energy.
  - Utilization of Nuclear energy in Industrial Sector.
  - Proper utilization of nuclear energy in various sector.
  - Advantages & Disadvantages of the source.

**Speaker:**



**Dr. Viswanatha B M**

**Topic:** Overview of Thermal Engineering

**Date:** 22/04/2021      **Link:** <https://meet.google.com/xfi-kxpz-xjx>

- Highlights:**
- Fundamental Concepts.
  - Availability, irreversibility.
  - General Thermodynamic relations.
  - Ideal gas & Real gas concepts.
  - Pure substance.

**Speaker:**



**Hari Ji**

**Topic:** It's time for Devotion

**Date:** 23/04/2021      **Link:** <https://meet.google.com/vou-cghx-mmr>

- Highlights:**
- How Prayer transforms oneself.
  - Importance of being Devoted.
  - What is devotion to God.
  - Benefits of having faith, focus towards God.
  - How to create Attainment towards Devotion.

**Speaker:**



**D. K. Ramesh**

**Topic:** Green Fuel as Alternative Fuel for CI Engine

**Date:** 23/04/2021      **Link:** <https://meet.google.com/cgf-ghxw-aet>

- Highlights:**
- Introduction to Alternate Fuel.
  - Types of alternate fuels.
  - Role of Green fuel and its importance over conventional fuels.
  - Examples of alternative fuels.
  - Environment clean alternative fuels.

**Speaker:**



**Dr. Viswanatha B M**

**Topic:** Vapor Power cycle

**Date:** 23/04/2021      **Link:** <https://meet.google.com/jnm-vthh-zcq>

- Highlights:**
- Introduction to vapor power cycle and its conversion to work.
  - Vapor absorption and compression cycle.
  - Carnot vapor cycle.
  - Efficiency of vapor cycle.
  - Working operations of steam power plant.

**Speaker:**



**Dr. Prashantha Basvaraja**

**Topic:** Computational Cardiovascular Disease-Flow Hemodynamics

**Date:** 24/04/2021      **Link:** [meet.google.com/nxk-vpgc-typ](https://meet.google.com/nxk-vpgc-typ)

- Highlights:**
- Introduction to Hemodynamics.
  - Cardiovascular Effects.
  - Cardiovascular anatomy .
  - Cardiovascular Disease & post effects of it.
  - Computational Cardiovascular Disease.

**Speaker:**



**Dr. Basavarajappa Y H**

**Topic:** DUAL fuel engines operation using gaseous (CNG) and liquid bio-fuels

**Date:** 24/04/2021      **Link:** [meet.google.com/vyc-rcps-bmw](https://meet.google.com/vyc-rcps-bmw)

- Highlights:**
- Introduction to Dual engines, CNG & liquid bio-fuels.
  - Performance of dual fuel engine & its overview.
  - Effect of engine parameters and types of gaseous fuels.
  - Technical overview of Compressed natural gas.
  - Study of technologies involved in engines.

**Speaker:**



**Dr. Gnanendra P M**

**Topic:** Biomass Gasification

**Date:** 24/04/2021      **Link:** [meet.google.com/fch-befw-ngp](https://meet.google.com/fch-befw-ngp)

- Highlights:**
- Introduction to Biomass gasification and its types.
  - Methods of biomass production.
  - Fundamentals, experiments & simulation of biomass.
  - Gasifiers and its types.
  - Thermogravimetric analysis.

**Speaker:**



**Dr. Banjara Kotresh**

**Topic:** Flow and Heat Transfer through Wire Mesh Porous Media

**Date:** 26/04/2021      **Link:** <https://meet.google.com/igq-gfus-tno>

- Highlights:**
- Introduction to Heat transfer and its flow.
  - Effect of porosity on flow behavior.
  - Numerical simulation of porous media.
  - Experimental study on the influence of wire diameter on the flow.
  - Characterization of wire mesh under various geometries and its scope in future.

**Speaker:**



**Dr. Sangmesh**

**Topic:** A walk to power scenario in INDIA and Significance of Renewable Energy

**Date:** 26/04/2021      **Link:** <https://meet.google.com/bnk-qmsd-tca>

- Highlights:**
- Introduction to Renewable Energy.
  - Types of renewable energy and its effective usage.
  - Statistics of power scenario in INDIA.
  - Energy conversion.
  - Improvements to be made in raising the productivity of power source.

**Speaker:** Mallikarjuna C Matt

**Topic:** Alternative fuels for automobiles

**Date:** 26/04/2021      **Link:** <https://meet.google.com/ycc-tqsx-atw>

- Highlights:**
- Introduction to Alternative fuels.
  - Types of Alternative fuels.
  - Compatibilty of alternative fuels automobiles .
  - Impact of alternative fuels on automobiles.
  - Scope and developments of alternative fuels on automobiles.

**Speaker:**



**Dr.Ranganatha Swamy L**

**Topic:** Impact of Oxygenated Fuels on Diesel Engine Performance and Emissions

**Date:** 27/04/2021      **Link:** <https://meet.google.com/ads-kvxa-knx>

- Highlights:**
- Introduction to fuels
  - Draw backs of Diesel Engine
  - Alternative fuels for IC engines
  - Techniques for engine applications
  - Experimental set up and methodology



**Speaker:**



**H R Purushothama**

**Topic:** Combustion in IC Engines

**Date:** 27/04/2021      **Link:** <https://meet.google.com/xhp-kyja-fod>

- Highlights:**
- Introduction
  - Stages of combustion in SI engines
  - Factors affecting ignition lag , knocking
  - Abnormal combustion
  - Typical combustion chambers

**Speaker:**



**Dr. Venkatesh L Lamani**

**Topic:** Impact of Energy Efficiency

**Date:** 27/04/2021      **Link:** <https://meet.google.com/jgd-sxek-tjq>

- Highlights:**
- Energy conservation and energy Efficiency
  - Climate change - effects in India
  - Action plan on climate change
  - LED street light project
  - Smart energy saver units

**Speaker:**



**Dr. Viswanatha B M**

**Topic:** Pure Substance, Ideal and Real Gases

**Date:** 28/04/2021      **Link:** <https://tel.meet/xpd-vtfd-hhh>

- Highlights:**
- Types of mixtures
  - Characteristics
  - Differences between Ideal and Real Gases
  - Inversal gas equation
  - Properties

**Speaker:**



**Kishan Naik**

**Topic:** Fire Resistance

**Date:** 28/04/2021      **Link:** <https://meet.google.com/eav-ytds-dqj>

- Highlights:**
- Introduction to fire resistance.
  - Fire properties.
  - Fire resistance.
  - Heat release rate.
  - Analysis.



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KALPATARU INSTITUTE OF TECHNOLOGY  
N H 206, Tiptur – 572202



## Department of Mechanical Engineering



Invitation for Virtual Valedictory of  
One Week AICTE-ISTE Refresher Program

on

“**Thermal Engineering**”

(Phase - 3)

On

**April 22<sup>nd</sup> to 28<sup>th</sup>, 2021**



### Chief Guest

: **Dr. B. E. RANGASWAMY**  
Registrar (Evaluation) VTU, Belagavi

### President

: **Sri. P.K.THIPPERUDRAPPA,**  
President, KVS, Tiptur

### Patrons:

#### Vice Presidents, KVS

Sri. T S Basavaraju  
Sri. Bagepalli Nataraj  
Sri. G P Deepak  
Sri B S Umesh

#### Secretaries, KVS

Sri M R Sangamesh  
Sri Sudhakar H G  
Sri G S Umashankar  
Sri. T U Jagadeeshamurthy

#### Treasurer, KVS

Sri. T.S. Shivaprasad

#### Program Coordinator

Dr. Viswanatha B M, HOD,ME

#### Convener

Dr. G.D. Gurumurthy, Principal

#### Faculty coordinators:

Dr. Kiran T S, Prof. Rohith Kumar H V, Prof. Mahanthes G

*All are cordially invited*

HOD and Staffs, Department of Mechanical Engineering

Date: **April 28<sup>th</sup>, 2021**

Time: **3:00PM**

Venue: **KIT Mechanical Engineering Block**



# Appendix-I

KALPATARU INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to VTU, Belagavi) B.H Road, Tiptur – 572 201

Department of Mechanical Engineering

AICTE – ISTE Refresher Program on Thermal Engineering (Phase-3), 22<sup>nd</sup> to 28<sup>th</sup> April 2021



## Schedule of Sessions- Online (Google meet)

Session - 1		Session - 2		Session - 3	
Sl. No.	Date	11.00am to 11.30am	11.30am to 1.00pm	1.00pm to 2.30pm	2.30pm to 4.00pm
1	22.04.2021 (Thursday)		<b>Inaugural Function</b>	<b>Dr. Basavaraj Rachappa Kerur</b> Professor of Physics, GUG. Present Address Controller of Examinations, Central University of Karnataka. Kadaganchi, KALABURAGI <b>Topic: "Nuclear Energy and its applications". &amp;</b> <b>"Importance of National Education Policy – 2020"</b>	<b>Dr. Viswanatha B M</b> Professor & Head, KIT, Tiptur <b>Topic: "Overview of Thermal Engineering?".</b>
2	23.04.2021 (Friday)		<b>Hari Ji, (Founder)</b> Shoonya Foundation, Javagal <b>Topic: "It's time for Devotion"</b>	<b>Dr. D. K. Ramesh</b> Professor, UVCE, Bangalore <b>Topic: "Green Fuel as Alternative Fuel for CI Engine".</b>	<b>Dr. Viswanatha B M</b> Professor & Head, KIT, Tiptur <b>Topic: "Vapor Power cycle"</b>
3	24.04.2021 (Saturday)		<b>Dr. Prashantha Basvaraja</b> CFD lead Engg. Thermetics Engineering Solution, Bangalore <b>Topic: "Computational Cardiovascular Disease-Flow Hemodynamics"</b>	<b>Dr. Basavarajappa Y H</b> HOD, Dept. of Mechanical Engg PESITM, Shimoga <b>Topic: "DUAL fuel engines operation using gaseous (CNG) and liquid biofuels".</b>	<b>Dr Gnanendra P.M.</b> Assistant Professor, BMSCE, Bangalore <b>Topic: "Biomass Gasification"</b>
4	26.04.2021 (Monday)		<b>Dr. Banjara Kotresh</b> Assistant Professor , GEC, Haveri <b>Topic: "Flow and Heat Transfer through Wire Mesh Porous Media"</b>	<b>Dr. Sangmesh</b> Assistant Professor, BMSIT, Bangalore <b>Topic: "A walk to power scenario in INDIA and Significance of Renewable Energy"</b>	<b>Dr. Mallikarjuna C Matt</b> Associate Professor, Centre for P G studies & VTU Regional Center, Kalburgi. <b>Topic: "Alternative fuels for automobiles"</b>
5	27.04.2021 (Tuesday)		<b>Dr. Ranganatha Swamy L</b> Associate Professor BGSIT, Adichunchanagiri University, BG Nagara, Mandya <b>Topic- Impact of Oxygenated Fuels on Diesel Engine Performance and Emissions.</b>	<b>Dr H R Purushothama</b> Prof. & Head, SIT Tumkur <b>Topic: Combustion in IC Engine</b>	<b>Dr. Venkatesh T Lamani</b> Assistant Professor, BMSCE, Bangalore <b>Topic: "Impact of Energy efficiency"</b>
6	28.04.2021 (Wednesday)		<b>Nagaraja Canchi</b> Business development & Regulatory (Solar & Wind power ) <b>Topic : "Renewable Energy current status and Roadmap"</b>	<b>Dr. Kishan Naik</b> Assistant Professor, UBDTCE, Davanagere <b>Topic: "Fire Resistance"</b>	<b>Valedictory Function and Test</b> (Over all feedback form) <b>(ISTE)</b>

### Faculty Coordinators

**Dr. T S Kiran**

Professor

Dept of Mechanical Engg.

Ph: 9844113298

**Prof. Rohith Kumar H V**

Assistant Professor

Dept of Mechanical Engg.

Ph: 9901467743

**Prof. Mahanathesh G**

Assistant Professor

Dept of Mechanical Engg.

Ph: 9880016505

### Program Coordinator:

**Dr. Viswanatha B M**

HOD & Professor

Dept of Mechanical Engg.

Ph: 8762018207

### Convener

**Dr. G. D. Gurumurthy**

Principal,

KIT, Tiptur

## Appendix - II

### List of participants

Sl.No	Name	Designation	Name Of The Institute Or Organization
1.	Vinod Kumar Biradar	Assistant Professor	Sri Sairam College Of Engineering Bangalore
2.	Brijesh C	Assistant Professor	Kalpataru Institute Of Technology
3.	Rahul Dabi	Assistant Professor	Shri Vaishnav Vidyapeeth Vishwavidyalaya
4.	Sandeep K	Assistant Professor	Kalpataru Institute Of Technology
5.	Faheem Akthar	Assistant Professor	Navodaya Institute Of Technology
6.	Anil K	Assistant Professor	Kalpataru Institute Of Technology
7.	Ravi Kalra	Assistant Professor	SIET Gr Noida
8.	Dr. Manuunath C	Assistant Professor	Acharya Institute Of Technology, Bangalore.
9.	P.Munusamy	Asst Professor	Er.Perumal Manimekalai College Of Engineering
10.	Dr. Kiran T S	Professor And TPO	Kalpataru Institute Of Technology
11.	Irfan Khan	Assistant Professor	Siet Gr Noida
12.	Manojkumar N Udgire	Assistant Professor	Alumari Ratnamala Institute of Engg And Technology
13.	Deepak Kumar N Y	Assistant Professor	Kalpataru Institute Of Technology
14.	Ms.Renitha P	Assistant Professor	Immanuel Arasar JJ College Of Engineering
15.	Ashadul Munsif	Assistant Professor	Dream Institute Of Technology
16.	Doppala Prasad	Assistant Professor	Pscmr Cet
17.	Ritik Ram	Student	Igit Sarang
18.	Balasubramanya H S	Assistant Professor	Rit, Bangalore
19.	Ajay C K	Asst Professor	Kalpataru Institute Of Technology
20.	Umamaheshwar Hebbal	Assistant Professor	Jss Academy Of Technical Education
21.	Poonam Diwan	Assistant Professor	Vec Lakhapur
22.	Praveen Harari	Assistant Professor	Sgmcoe Mahagaon
23.	Syed Muhammad Ahmed	Ug Student	Lords Institute Of Engineering And Technology
24.	Sasmita Bal	Asst .Prof.	Alliance University, Bangalore
25.	Easwer.Nv	B Tech Mech.Engg	Srm Institute Of Science And Technology, Vadapalani
26.	Ashish Shivkumar Utage	Assistant Professor	Dr. Vishwanath Karad Mit World Peace University, Pune
27.	Dr. Aman Soi	Assistant Professor	Global Group Of Institutes
28.	Eswaraiah KS	Associate Professor	Kalpataru Institute Of Technology
29.	Manjunath G A	Assistant Professor	Kls Gogte Institute Of Technology
30.	Golekar Pushkar Ramesh	Assistant Professor	RMD Sinhgad School Of Engineering
31.	Dinesh Ramesh Salunke	Assistant Professor	Rmd Sinhgad School Of Engineering
32.	Dr Yuvaraj L	Assistant Professor	Acharya Institute Of Technology
33.	Girish B	Assistant Professor	Bangalore Institute Of Technology
34.	Dr. T M Chandrashekaraiah	Professor	Kalpataru Institute Of Technology
35.	Dr.D.Pritima	Professor	Sri Krishna College Of Engineering And Technology
36.	Mehetre Vikaskumar Kishanrao	Asst.Professor	Apcoer Pune
37.	Chetan Jaiswal	Assistant Professor	Shri Vaishnav Vidyapeeth Vishwavidyalaya
38.	T Ch Anil Kumar	Assistant Professor	Vignan's Foundation For Science Technology
39.	Hariksha C R	Assistant Professor	Kalpataru Institute Of Technology
40.	Pradeep Kumar Chandra	Assistant Professor	Skyline Institute Of Engineering And Technology
41.	S Naveen	Assistant Professor	Proudhadevaraya Institute Of Technology
42.	Vishwas M	Assistant Professor	Siddaganga Institute Of Technology
43.	Sushma S	Assistant Professor	Channabasaveshwara Institute Of Technology
44.	Mr. PRASHANT B V	Assistant Professor	P K Technical Campus Chakan
45.	Saran Theja Manige	Research Scholar	JNTU
46.	Prof. Shrikant V B	Assistant Professor	Dr. Sau. Kgiat Darapur
47.	Jani Dilip Batukray	Associate Professor	Government Engineering College Dahod
48.	Rajeesh S	Assistant Professor	Ramaiah Institute Of Technology
49.	Shekasa Nadaf	Assistant Professor	Government Engineering College
50.	Inder Singh Nagar	Assistant Professor	School Of Research And Technology
51.	Patel C H	Assistant Professor	Lovely Professional University
52.	Jayant Nana Kajale	Asst Prof	Sinhgad Academy Of Engineering, Kondhwa.
53.	Pinakesh Banerjee	Research Scholar	National Institute Of Technology Karnataka
54.	Manjunath V B	Assistant Professor	Holy Mary Institute Of Technology And Science
55.	Sridhar S	Research Scholar	National Institute Of Technology Karnataka
56.	Abutalib Chhipa	Assistant Professor	Ujjain Engineering College

57.	Bernard Oruabena	Lecturer	Federal Polytechnic Ekowe
58.	Deviprasad N Mirashi	Assistant Professor	Jain College Of Engineering And Technology,Hubballi-
59.	Deepak Lokare	Assistant Professor	Kls Vdit
60.	Thara R	Assistant Professor	Cit, Gubbi , Tumkur
61.	Girish A R	Assistant Professor	Srinivas Institute Of Technology, Mangalore
62.	Priyam Shukla	Student	Madhav Institute of Technology and Science College MP
63.	Anjali Upadhyay	Faculty	Vikram University
64.	Ekta Tripathi	Assistant Professor	Svits,Svvv
65.	Mallikarjuna G B	Assistant Professor	Kalpataru Institute Of Technology
66.	Dr. Prashanth K P	Asst Prof	Acharya Institute Of Technology
67.	Kumara B M	Assistant Professor	ACS College Of Engineering
68.	Dr Lokesh P	Asst Prof	Rv Institute Of Technology And Management
69.	K Kamesh	Lecturer	Murugappa Polytechnic College
70.	Ashok Kumar K	Assistant Professor	Ramaiah Institute Of Technology
71.	Rajesh Javali	Assistant Professor	Pdit
72.	Varun N	Assistant Professor	Srinivas Institute Of Technology
73.	Praveen Math	Assistant Professor	Reva University Bangalore
74.	Jagadeesh B	Assistant Professor	Srinivas Institute Of Technology
75.	Dr. ABDULRAJAK BURADI	Assistant Professor	NITTE Meenakshi Institute Of Technology, Bangalore
76.	Dr. Jayaraj Y Kudariyavar	Assistant Professor	SDM College Of Engineering And Technology Dharwad
77.	Dr Yogesha K K	Assistant Professor	NIE
78.	Lavakumar K S	Assistant Professor	Acharya Institute Of Technology
79.	Abinash Behera	Assistant Professor	Majhighariani Institute Of Technology And Science
80.	Sushil Kumar	Assistant Professor	Hansraj College
81.	Balaji.S	Assistant Professor	Reva University
82.	Shankha Shubhra Goswami	Assistant Professor	Indira Gandhi Institute Of Technology
83.	Puja Swain	Lecturer	Jharsuguda Engineering School
84.	Dr C Sivakandhan	Professor	Nadar Saraswathi College Of Engg And Technology
85.	Pradeep H	Assistant Professor	B G S I T
86.	Sharath N	Assistant Professor	Bgsit ACU
87.	Nandeesh HL	Assistant Professor	MS Ramaiah Institute Of Technology
88.	Santhosh Kumar T C	Assistant Professor	B G S Institute Of Technology
89.	Jagadeesh A	Assistant Professor	Mvjce
90.	Dr. Ghanshyam Barman	Asstant Professor	Uka Tarsadia University Bardoli- 394350 Gujarat, India
91.	Mr.Vikram Kulkarni	Assistant Professor	D Y Patil College Of Engineering Akurdi
92.	Varun K R	Asst. Professor	The Oxford College Of Engineering
93.	Dr. Devaraja. P. B.	Associate Professor	Kalpataru Institute Of Technology
94.	Aamir	Assistant Professor	Bbd Itm Lucknow
95.	Dr Mahesh T S	Associante Professor	Government Engineering College Hassan
96.	Sushil Kumar Sahoo	Phd Scholar	Indira Gandhi Institute Of Technology Sarang
97.	Mahanthesh.G	Assistant Professor	Kalpataru Institute Of Technology
98.	Mr.M.P.M.MOHAMED	Assistant Professor	Mohamed Sathak Engg College

## Appendix-III

### Resource Persons

- Dr. Basavaraj Rachappa Kerur  
Professor of Physics, GUG.  
Present address  
Controller of Examinations, Central University of  
Karnataka, Kadaganchi, KALABURAGI.
- Hari Ji, (Founder)  
Shoonya Foundation, Javagal
- Dr. D. K. Ramesh  
Professor, UVCE, Bangalore.
- Dr. Prashantha Basvaraja  
CFD lead Engg. Thermetics Engineering  
Solution, Bangalore.
- Dr. Basavarajappa Y H  
HOD, Dept. of Mechanical Engg  
PESITM, Shimoga.
- Dr Gnanendra P M  
Assistant Professor, BMSCE, Bangalore.
- Dr. Banjara Kotresh  
Assistant Professor, GEC, Haveri
- Dr. Sangamesh  
Assistant Professor, BMSIT, Bangalore.
- Dr. Mallikarjuna C Matt  
Associate Professor, Centre for P G studies &  
VTU Regional Center, Kalburgi.
- Dr. Ranganatha Swamy L  
Associate Professor, BGSIT,  
Adichunchanagiri University, BG Nagara,  
Mandya
- Dr HR Purushothama  
Professor & Head, SIT, Tumkur.
- Dr. Venkatesh T Lamani  
Assistant Professor, BMSCE, Bangalore
- Dr. Kishan Naik  
Assistant Professor, UBDTCE, Davanagere.
- Dr. Viswanatha B M  
Professor & Head, KIT, Tiptur.
- Nagaraja Canchi  
Business development & Regulatory  
(Solar & Wind Power).

One Week AICTE-ISTE Online Refresher  
Program  
On

## ‘Thermal Engineering’ (Phase-3)

22/04/2021 to 28/04/2021

Sponsored by AICTE-ISTE-New Delhi



AICTE



ISTE



Organised by

**Department of Mechanical Engineering**  
**Kalpataru Institute of Technology,**  
**Tiptur**

(Affiliated to VTU, Belgavi and Recognized by AICTE, New Delhi)

B.H.Road, TIPTUR-572 201, Karnataka,

Ph: 08134-251267, Fax No: 08134-251939

www.kittiptur.ac.in

### **About Organizing Institute**

Kalpataru Institute of Technology (KIT) is a part of KVS, the mother institution. KIT was established in 1986 with a view to provide technical education. The college is affiliated to Visvesvaraya Technological University, Belagavi and is recognized by All India Council for Technical Education (AICTE), New Delhi. The 34 year old college has an excellent team of qualified, experienced and dedicated faculty members with the state of the art infrastructure. The college campus is located on the outskirts of the town at a distance of about 2 km. from Railway station and Bus Stand.

### **About the Department**

The Department of Mechanical Engineering was established in the year 1992 with an initial intake of 30 which further was enhanced in two stages to 60 first and then to 120. The department is currently headed by Dr. B M Viswanatha, Professor & HOD. The department is in optimum demand since its inception to till date. The department has well experienced, highly qualified and committed faculty members. The department has three Professors with Ph.D degree. The Department has research center recognized by VTU Belagavi. Many faculties are pursuing Ph.D in R&D Center of the department. The Research and Development department has received Rs. 20 lakhs grant to setup Tribological study research laboratory and Rs. 30 lakhs grant to set up Energy Conversion Engineering research laboratory from VGST Govt. of Karnataka. The department organizes symposiums, workshops and seminars under Mechanical Engineering Association (MEA) every year.

### **About AICTE**

In accordance with the provisions of the AICTE Act (1987), for the first five years after its inception in 1988, the Minister for Human Resource Development, the Government of India, was the Chairman of the Council. The first full-time Chairman was appointed on July 2, 1993 and the Council was reconstituted in March 1994 with a term of three years. The Executive Committee was re-constituted on July 7, 1994 and All India Board of Studies and Advisory Boards were constituted in 1994-95. Regional Offices of the Ministry of Human Resource Development, the Government of India, located in Kolkata, Chennai, Kanpur, and Mumbai were transferred to AICTE and the staff working in these offices were also deputed to the Council on Foreign Service terms w.e.f. October 1, 1995.

These offices functioned as secretariats of regional Committees in the four regions (North, East, West and South). Three new regional Committees in southwest, central, and northwest regions with their secretariats located in Bangalore, Bhopal, and Chandigarh, respectively, were also established on July 27, 1994. One more regional committee in South-Central region with its Secretariat in Hyderabad was notified on March 8, 2007.

### **About ISTE**

The Indian Society for Technical Education (ISTE) is the leading National Profession non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. Being the only national organization of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of the Union Government. The strength of ISTE is the strong base it has in technical education institutions in the country. At present, the ISTE has a very large and an effective membership base consisting of 124024 Life Members, 5 lakh Student members, 2734 Institutional Members, 1369 Faculty Chapters, 1479 Student Chapters at institutional level and 17 Sections at State level.

### **Objectives of FDP**

- ❖ To provide a platform for interaction with experts of different knowledge domains
- ❖ Faculty development programs (FDPs) have proven to be successful for improving teaching skills in higher education.
- ❖ To update the faculty members, research scholars and industry professionals about the current ongoing research in the field of Thermal Engineering and related areas.
- ❖ This FDP also helps to develop innovative thoughts, knowledge on interactions of industry and institute.
- ❖ To impart knowledge on fundamental & advanced concepts of Thermal Engineering

### **Advisory Committee**

Prof. Anil D. Sahasrabudhe, Chairman, AICTE, New Delhi  
Dr. Karisiddappa, Vice Chancellor, VTU, Belagavi  
Col. B Venkat, Director, Faculty Development cell, AICTE, New-Delhi  
Prof. Vijay D. Vaidya, Executive Secretary, ISTE, New Delhi  
Dr. Shrinivas S Balli, Vice Chancellor of Nrupathunga University, Bengaluru.  
Dr. A S Deshpande, Registrar, VTU, Belagavi  
Dr. B E Rangaswamy, Registrar (Evaluation), VTU, Belagavi  
Dr. Chikkanna N, Special Officer, VTU Regional Center, Bangalore  
Dr. S Basavarajappa, Registrar, IIT Dharwad  
Dr. S M Shashidhara, Former Principal, KIT, Tiptur  
Dr. Rangaswamy T, Principal, GEC, Mosalehosahalli  
Dr H Nagabhushana Chairman & Professor Department of Studies & Research in Physics Tumkur University, Tumkur  
Dr. V V Katti Principal, K.L.S's V.D.I.T, Haliyal  
Dr. Irfan G Principal HMSIT, Tumkuru  
Dr. P M Suresh ACS College of Engineering, Bangalore  
Dr. Girish AMCE College, Bangalore  
Dr. M Prasanna Kumar, UBDTCE-Davanagere  
Dr. Mahadevaswamy P, SCE, Bangalore  
Dr. D P Girish, GEC, Ramanagar  
Dr. B P Shikvakumar, JSSATE, Bangalore  
Dr. Kanchiraya S, GEC, Hassan  
Dr. Mahesh T S, GEC, Hassan  
Dr. Virupaxi Auradi, SIT, Tumkur  
Dr. A G Shivasiddaramaiah, SIT, Tumkur  
Dr. G S Shivashankar, SIT, Tumkur

### **Registration**

No registration fees (Maximum participants allowed: 100, on first come first serve basis). Preference will be given to ISTE life members. E-certificates will be given to the participants those who are satisfying the requirement of 80% or more attendance and 60% or more marks in quiz which will be conducted during/end of the FDP.

### **Eligibility**

Faculty members and research scholars belonging to AICTE approved Institutions.

### **Important Dates**

Last date for Registration : **19-04-2021**  
Confirmation of Seats : **20-04-2021**

### **Registration Link:**

<https://forms.gle/x7wU7Hb13Dt cU17o6>





## Photo gallery



Inauguration of One Week AICTE- ISTE Refresher Program on Thermal Engineering (Phase-3)  
on 22/04/2021



Inauguration with office bearers



Principal, KIT addressing the session



HOD, Department of Mechanical Engineering addressing the session

### ಎಂಜಿನಿಯರಿಂಗ್ ಕೋರ್ಸು ಪರಿಷ್ಕರಣೆ ಅವಶ್ಯ

ತಿಪಟೂರು: ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿಯಡಿ ರೂಪಿತವಾಗಿರುವ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಸಾಕಷ್ಟು ನಿರ್ದಿಷ್ಟ ಸವಾಲುಗಳನ್ನು ಎದುರಿಸುತ್ತಿದ್ದು, ಈಗಿನ ಪಠ್ಯಕ್ರಮಗಳ ವಿಭಾಗಗಳು ಸಂಪೂರ್ಣವಾಗಿ ಹೊಸ ಆಧಾರದ ಅಥವಾ ಸಂಪೂರ್ಣವಾಗಿ ಕೌಶಲ್ಯ ಆಧಾರಿತವಾಗಿಲ್ಲದಿರುವುದರಿಂದ ಸಾಕಷ್ಟು ಬದಲಾವಣೆಗಳ ಅವಶ್ಯಕತೆ ಇದೆ ಎಂದು ನವದೆಹಲಿ ಎಂಪಿಟಿಇ ಉಪನ್ಯಾಸಕರ ಅಭಿಪ್ರಾಯ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕ ಕರ್ನಲ್ ಬಿ. ವೆಂಕಟ ಅಭಿಪ್ರಾಯವಹಿಸಿದರು.



ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು.

ನಗರದ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ ಎಂಪಿಟಿಇ-ಎನ್‌ಪಿಟಿಇ ಸಹಯೋಗದಲ್ಲಿ 15ನೇ ನವೆಂಬರ್‌ನಿಂದ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದರು. ಪ್ರಸ್ತುತ ಮತ್ತು ಭವಿಷ್ಯದ ಉತ್ತಮ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಬುದ್ಧಿವಂತಿಕೆಯ ವ್ಯವಸ್ಥೆಗಳನ್ನು ತಯಾರಿಸಲು ಸಾಧ್ಯವಾಗುವಂತೆ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗುವುದು. ಇದರಿಂದ ಬದಲಾಗುತ್ತಿರುವ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಮತ್ತು ಪರಿಸರ ಸಂದರ್ಭಗಳಿಗೆ ಸ್ಪಂದಿಸಲು ಸಾಧ್ಯ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಎಂದರು.

ಕಲ್ಕತ್ತಾ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ದೇಶದ ಮೊದಲ 73 ಉಪನ್ಯಾಸಕರು ಎರಡನೇ ಹಂತದಲ್ಲಿ ಸುಮಾರು 94 ಉಪನ್ಯಾಸಕರು ಪ್ರಮಾಣ ಪತ್ರ ಪಡೆಯಲು ಮೊದಲನೇ ಹಂತದಲ್ಲಿ ಸುಮಾರು 150ಕ್ಕೂ ಹೆಚ್ಚು ಉಪನ್ಯಾಸಕರು ಭಾಗವಹಿಸುತ್ತಿದ್ದಾರೆ ಎಂದು. ಕಲ್ಕತ್ತಾ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಅಧ್ಯಕ್ಷರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ. ಪ್ರಸ್ತುತ ಕೋರ್ಸು-19 ಟಿಪ್ಪಣಿ ಆನ್‌ಲೈನ್ ಮೂಲಕ ಪರಿಷ್ಕರಿಸಬೇಕೆಂದು ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ. ಪ್ರಸ್ತುತ ಕೋರ್ಸು-19 ಟಿಪ್ಪಣಿ ಆನ್‌ಲೈನ್ ಮೂಲಕ ಪರಿಷ್ಕರಿಸಬೇಕೆಂದು ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ.

### ದೇಶದ ಅಭಿವೃದ್ಧಿಗೆ ಶ್ರಮಿಸಿ: ರಂಗಸ್ವಾಮಿ

#### ತಾಂತ್ರಿಕ ಜ್ಞಾನ ಹೆಚ್ಚು ಗಳಿಸಿ ಜನರ ಸ್ವಾವಲಂಬನೆಗೆ ಕೊಡುಗೆ ನೀಡಿ

• ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ ತಿಪಟೂರು  
ಯಾವ ದೇಶ ಅಪಾರ, ತಂತ್ರಜ್ಞಾನ ಸೇರಿದಂತೆ ಎಲ್ಲದರಲ್ಲೂ ಕೃಷಿ ಮತ್ತು ಉದ್ಯೋಗಗಳಿಗೆ ಅಗತ್ಯವಿರುವ ಅಭಿವೃದ್ಧಿ, ಸ್ವಾವಲಂಬನೆ ಸಾಧಿಸುತ್ತದೋ ಅಲ್ಲಿ ವಿಜ್ಞಾನ, ತಾಂತ್ರಿಕ ಕೆಲಸ ಕೊಡುಗೆ ಮಾಡುವ ಶಕ್ತಿಯ ಸದೃಶ ಮುಂದಿನ ದಿನಗಳಿಗೆ ಅರ್ಥ.

ಸಿಯಾಗಿ ನಡೆಯುವುದು ಶ್ರಾಪನೀಯ. ಇಂತಹ ಕಾರ್ಯಕ್ರಮಗಳಲ್ಲಿ ಭಾಗಿಯಾಗುವುದರಿಂದ ಉಪನ್ಯಾಸಕರಿಗೆ, ವಿಜ್ಞಾನಿಗಳಿಗೆ ಉತ್ತಮ ಮಟ್ಟದ ಜ್ಞಾನಾಭಿವೃದ್ಧಿಯಾಗಿ ಅಪರ ಸಂತೋಷವಾಗಿ ಕಾರ್ಯಕ್ರಮಗಳು, ಬೋಧನೆಗೆ ಹಾಗೂ ನಮ್ಮ ತಾಂತ್ರಿಕ ವಿಜ್ಞಾನಿಗಳು ವಿಜ್ಞಾನ, ತಾಂತ್ರಿಕ ಜ್ಞಾನವನ್ನು ಹೆಚ್ಚು ಅರಿತು ದೇಶದ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಜನರ ಸ್ವಾವಲಂಬನೆಗೆ ಕೊಡುಗೆಯಾಗಿ ನೀಡಬೇಕೆಂದು ವಿಷಯ ಚರ್ಚಿಸಿದರು. ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ.



ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು.

ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು. ಪ್ರಸ್ತುತ ಮತ್ತು ಭವಿಷ್ಯದ ಉತ್ತಮ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಬುದ್ಧಿವಂತಿಕೆಯ ವ್ಯವಸ್ಥೆಗಳನ್ನು ತಯಾರಿಸಲು ಸಾಧ್ಯವಾಗುವಂತೆ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗುವುದು. ಇದರಿಂದ ಬದಲಾಗುತ್ತಿರುವ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಮತ್ತು ಪರಿಸರ ಸಂದರ್ಭಗಳಿಗೆ ಸ್ಪಂದಿಸಲು ಸಾಧ್ಯ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಎಂದರು.

ಕಲ್ಕತ್ತಾ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ದೇಶದ ಮೊದಲ 73 ಉಪನ್ಯಾಸಕರು ಎರಡನೇ ಹಂತದಲ್ಲಿ ಸುಮಾರು 94 ಉಪನ್ಯಾಸಕರು ಪ್ರಮಾಣ ಪತ್ರ ಪಡೆಯಲು ಮೊದಲನೇ ಹಂತದಲ್ಲಿ ಸುಮಾರು 150ಕ್ಕೂ ಹೆಚ್ಚು ಉಪನ್ಯಾಸಕರು ಭಾಗವಹಿಸುತ್ತಿದ್ದಾರೆ ಎಂದು. ಕಲ್ಕತ್ತಾ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಅಧ್ಯಕ್ಷರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ.

### ಪ್ರತಿವಾದನೆ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿಯಡಿ ರೂಪಿತವಾಗಿರುವ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣದ ಮುಂದೆ ಸಾಕಷ್ಟು ನಿರ್ದಿಷ್ಟ ಸವಾಲುಗಳು: ಕರ್ನಲ್ ಬಿ.ವೆಂಕಟ

# ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸುವುದು ಅವಶ್ಯ

• ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ ತಿಪಟೂರು  
ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿಯಡಿ ರೂಪಿತವಾಗಿರುವ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣವು ಸಾಕಷ್ಟು ನಿರ್ದಿಷ್ಟ ಸವಾಲುಗಳನ್ನು ಎದುರಿಸುತ್ತಿದ್ದು, ಈಗಿನ ಪಠ್ಯಕ್ರಮಗಳ ವಿಭಾಗಗಳು ಸಂಪೂರ್ಣವಾಗಿ ಹೊಸ ಆಧಾರದ ಅಥವಾ ಸಂಪೂರ್ಣವಾಗಿ ಕೌಶಲ್ಯ ಆಧಾರಿತವಾಗಿಲ್ಲದಿರುವುದರಿಂದ ಸಾಕಷ್ಟು ಬದಲಾವಣೆಗಳ ಅವಶ್ಯಕತೆ ಇದೆ ಎಂದು ನವದೆಹಲಿ ಎಂಪಿಟಿಇ ಉಪನ್ಯಾಸಕರ ಅಭಿಪ್ರಾಯ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕ ಕರ್ನಲ್ ಬಿ. ವೆಂಕಟ ಅಭಿಪ್ರಾಯವಹಿಸಿದರು.



ತಿಪಟೂರಿನ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವನ್ನು ನಡೆಸಿದ ಸಂದರ್ಭದಲ್ಲಿ ಎಂಪಿಟಿಇ ಉಪನ್ಯಾಸಕರ ಅಭಿಪ್ರಾಯ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕ ಕರ್ನಲ್ ಬಿ.ವೆಂಕಟ ಭಾಗವಹಿಸಿದರು.

ನಗರದ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ ಎಂಪಿಟಿಇ-ಎನ್‌ಪಿಟಿಇ ಸಹಯೋಗದಲ್ಲಿ 15ನೇ ನವೆಂಬರ್‌ನಿಂದ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ಉದ್ಘಾಟಿಸಿದ ಅವರು, ಪ್ರಸ್ತುತ ಮತ್ತು ಭವಿಷ್ಯದ ಉತ್ತಮ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ, ಬುದ್ಧಿವಂತಿಕೆಯ ವ್ಯವಸ್ಥೆಗಳನ್ನು ತಯಾರಿಸಲು ಸಾಧ್ಯವಾಗುವಂತೆ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗುವುದು.

ನಗರದ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ ಎಂಪಿಟಿಇ-ಎನ್‌ಪಿಟಿಇ ಸಹಯೋಗದಲ್ಲಿ 15ನೇ ನವೆಂಬರ್‌ನಿಂದ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು. ಪ್ರಸ್ತುತ ಮತ್ತು ಭವಿಷ್ಯದ ಉತ್ತಮ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಬುದ್ಧಿವಂತಿಕೆಯ ವ್ಯವಸ್ಥೆಗಳನ್ನು ತಯಾರಿಸಲು ಸಾಧ್ಯವಾಗುವಂತೆ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗುವುದು. ಇದರಿಂದ ಬದಲಾಗುತ್ತಿರುವ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಮತ್ತು ಪರಿಸರ ಸಂದರ್ಭಗಳಿಗೆ ಸ್ಪಂದಿಸಲು ಸಾಧ್ಯ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಎಂದರು.

ಕಡಿಮೆಯಾಗುವ ನಿರೀಕ್ಷೆಯಿದೆ. ಗ್ರಾಮೀಣ ಪ್ರದೇಶದಲ್ಲಿರುವ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮತ್ತು ವಿಜ್ಞಾನ ವಿಭಾಗಗಳಿಗೆ ಇಂತಹ ದೊಡ್ಡಮಟ್ಟದ ಕಾರ್ಯಾಗಾರಗಳು ನಡೆಯುತ್ತಿರುವುದರಿಂದ ಉಪನ್ಯಾಸಕ ವರ್ಗದವರು ತಮ್ಮ ಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಿಸಿಕೊಂಡು ವಿಜ್ಞಾನಿಗಳ ಉಜ್ವಲ ಭವಿಷ್ಯ ರೂಪಿಸಲು ಮತ್ತು ಉತ್ತಮ ಉದ್ಯೋಗಗಳನ್ನಾಗಿ ಮಾಡುವ ಮೂಲಕ ದೇಶದ ನಿರೀಕ್ಷೆಗಳಿಗೆ ಸಮರ್ಥವಾಗಿ ನಿರೀಕ್ಷಿಸಬೇಕು ಎಂದು ಪ್ರಮುಖ ಮಾತನಾಡಿದರು.

ನಡೆಸಲು ಅನುವು ಮಾಡಿಕೊಟ್ಟಿರುವುದಕ್ಕೆ ಸಂಸ್ಥೆಯ ಪರವಾಗಿ ದ್ರವ್ಯವಾಗಿದೆ. ಉಪನ್ಯಾಸಕರು, ವಿಜ್ಞಾನಿಗಳಿಗೆ ಇದರ ಸದುಪಯೋಗವನ್ನು ಪಡೆದು ಹೆಚ್ಚಿನ ಜ್ಞಾನಾಭಿವೃದ್ಧಿ ಪಡೆಯಬೇಕೆಂದರೆ ಪ್ರಸ್ತುತ ಸಂಸ್ಥೆಯು ಇಂತಹ ಉತ್ತಮ ಕಾರ್ಯಕ್ರಮಗಳನ್ನು ನಡೆಸಲು ಯಾವಾಗಲೂ ಸಹಕಾರ ನೀಡುತ್ತದೆ ಎಂದರು.

ನಗರದ ಕಲ್ಕತ್ತಾ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದಲ್ಲಿ ಎಂಪಿಟಿಇ-ಎನ್‌ಪಿಟಿಇ ಸಹಯೋಗದಲ್ಲಿ 15ನೇ ನವೆಂಬರ್‌ನಿಂದ 3ನೇ ಹಂತದ ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು. ಪ್ರಸ್ತುತ ಮತ್ತು ಭವಿಷ್ಯದ ಉತ್ತಮ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಬುದ್ಧಿವಂತಿಕೆಯ ವ್ಯವಸ್ಥೆಗಳನ್ನು ತಯಾರಿಸಲು ಸಾಧ್ಯವಾಗುವಂತೆ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕೋರ್ಸುಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗುವುದು. ಇದರಿಂದ ಬದಲಾಗುತ್ತಿರುವ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಮತ್ತು ಪರಿಸರ ಸಂದರ್ಭಗಳಿಗೆ ಸ್ಪಂದಿಸಲು ಸಾಧ್ಯ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಬಳಸಿಕೊಳ್ಳಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಎಂದರು.

ಕಲ್ಕತ್ತಾ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್ ಮಾತನಾಡಿ, ರಿಪ್ರೆಸೆಂಟೇಟಿವ್ ಕಾರ್ಯಕ್ರಮವು ದೊಡ್ಡಮಟ್ಟದಲ್ಲಿ ಮುಂದುವರಿದು ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾರ್ಪಡಬೇಕಾಗಿದೆ.