

One Week AICTE-ISTE Online Refresher Program on

‘Thermal Engineering’ (Phase-1)

17/02/2021 to 23/02/2021

Sponsored by AICTE-ISTE, New Delhi



Proceedings of Phase-1



ESTD: 1986



Organised by

Department of Mechanical Engineering

Kalpataru Institute of Technology

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

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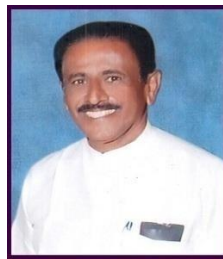


Sri. G K Prabhu

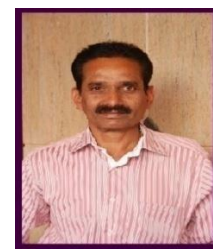
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Sri. T U Jagadeeshamurthy

Treasurer KVS



Sri. T S Shivaprasad

Refresher Program on
‘Thermal Engineering’ (Phase-1)

17/02/2021 to 23/02/2021

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-1) from 17/02/2021 to 23/02/2021.

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-1).

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-1).

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 a matter of pleasure to note that Department of Mechanical Engineering is conducting One Week AICTE-ISTE Refresher Program on **Thermal Engineering' (Phase-1)**. I am sure that the thoughtfulness of the Program will promote the faculties, participants and students of Mechanical Engineering for detailed deliberations on recent advancements in **Thermal Engineering'** and bring comforts to their career.

I heartily congratulate all the organizing committee members a great success in their effort to make this One Week AICTE-ISTE Refresher Program on Thermal Engineering' (Phase-1) a great success.

My best wishes to all the participants of this One Week AICTE-ISTE Refresher Program on Thermal Engineering' (Phase-1).



Sri T S Shivaprasad

Treasurer, KVS

I am very much pleased to know that the Department of Mechanical Engineering is conducting One Week AICTE-ISTE Refresher Program on **Thermal Engineering' (Phase-1)** from **17/02/2021 to 23/02/2021**.

I am also happy to note that participants from popular institutions from all over India are participating in this One Week AICTE-ISTE Refresher Program on **Thermal Engineering' (Phase-1)**. It provides a great platform for researchers and students working in thermal related areas of Mechanical Engineering to enhance present trends and future aspects.

I wish this One Week AICTE-ISTE Refresher Program on **Thermal Engineering' (Phase-1)** a great success.

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

The one week program covering on different topics of thermal engineering will bring immense knowledge on the subject. The resource persons invited are from prestigious institutions with a vast knowledge on the topics of thermal engineering. The applications of thermal engineering are universe. I wish all the participants across the country to get benefitted by attending the program.

I congratulate department of Mechanical Engineering for organizing this program and wish a grand success.



Dr. Viswanatha B M
Professor & HOD
Dept. of Mechanical Engineering
KIT, Tiptur

Department of Mechanical Engineering is organizing one week online refresher program on Thermal Engineering from 17th to 23rd February 2021. Department have received a sponsorship from AICTE-ISTE-New Delhi to the program. Eminent professors from various institutions and industries are resource persons. To this program AICTE affiliated college faculties from various institutions across the country are participating in the program. 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. All the best for the program.

“Tell me and I forget. Teach me and I remember. Involve me and I learn.”

— Benjamin Franklin

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Eswariah K S

Associate Professor

Dept. of Mechanical Engg.

KIT, Tiptur

It is a pride that the Department of Mechanical Engineering KIT, Tiptur is organizing AICTE-ISTE Refresher Program on **Thermal Engineering (Phase-1)**.

I am confident that all the faculties and researchers of mechanical engineering department enhance their knowledge in thermal related fields and are benefitted utmost.

As a faculty coordinator it is a great pleasure to organize the program sponsored by AICTE-ISTE New Delhi. I am seeking co ordination and support from all the resource persons, faculty members of Department of Mechanical Engineering from various organizations around the nation and also the program is incomplete without harmonization from faculty members of department of mechanical engineering KIT.

My best wishes to all the participants.

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Sl No	CONTENTS	Page No
1	Introduction	1-2
2	Patron	3
3	Advisory Committee	4
4	Coordinators and Organizing Committee	5
5	Resource Persons	6
6	Session schedules	7- 8
7	Advanced Flow Simulations Involving Combustion and heat transfers	9
8	Fundamentals of Thermodynamics	9
9	Hybrid nano fluids-use and future prospects	10
10	The evolution, the present and the future of IC Engines	10
11	Multiple Jet Impingement (heat transfer augmentation with multiple jet impingement)	11
12	Coal, its Quality and Impact Assessment-1	11
13	Coal, its Quality and Impact Assessment-2	12
14	Effects of coal combustion on thermal power plant boiler components, their Remaining Life Assessment through NDE.	12
15	Steam turbines	13
16	Energy Transfer in Turbo Machines	13
17	Biogasification as a renewable energy option for energy sustainability	14
18	Heat Transfer Enhancement in Heat Exchanger using Nano Fluids	14
19	Computational fluid dynamics (CFD) project planning	15
20	Wind and other Non Conventional Energy sources	15
21	Optimization Study on Fluid Flow and Heat Transfer through Metal Foams	16
22	Mental, Emotional development and stress management	16
Appendix -I Session schedules		
Appendix- II List of participants		
Appendix -III Brochure		
Appendix- IV News paper cuttings		



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N H 206, Tiptur – 572202



Department of Mechanical Engineering

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

on

“Thermal Engineering” (Phase - 1)

On

February 17th to 23rd , 2021



Chief Guest : **Dr. S. BASAVARAJAPPA,**
Registrar, IIT Dharwad

Guests of Honor : **Prof . VIJAY D. VAIDYA,**
Executive Secretary, ISTE,, NewDelhi

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

Patrons :

Vice Presidents, KVS

Sri. S.S. Nataraj
Sri.G.K. Prabhu

Secretaries, KVS

Prof. Rajakumar
Sri.K.P.Rudramuniswamy
Sri.T.U. Jagadeeshmurthy

Treasurer, KVS

Sri. T.S. Shivaprasad

Program Coordinator

Dr. Viswanatha B M, HOD,ME

Convener

Dr. G.D. Gurumurthy, Principal

Faculty coordinators:

Prof. Eshwariah K S , Prof. Sandeep K, Prof. Harikesha C R

All are cordially invited

HOD and Staffs, Department of Mechanical Engineering

Date: **February 17th , 2021**

Time: **9:30 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. S S Natraj

Sri. G K Prabhu

Secretaries KVS

Prof. Rajakumar

Sri. K P Rudramuniswamy

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. A S Deshpande, Registrar, VTU, Belagavi
Dr. B E Rangaswamy, Registrar (Evaluation), VTU, Belagavi
Dr. S Basavarajappa, Registrar, IIT Dharwad
Dr. S M Shashidhara, Former Principal, KIT, Tiptur
Dr. Rangaswamy T, Principal, GEC, Mosalehosahalli
Dr. G S Shivashankar, SIT, Tumkur
Dr. M Prasanna Kumar, UBDTCE-Davanagere
Dr. Shasikantha Karinka, NMAMIT, Nitte
Dr. Mahadevaswamy P, SCE, Bangalore
Dr. Girisha C, AMC, Bangalore
Dr. Mrunthunjaya M, JSSATE, Bangalore
Dr. B P Shikvakumar, JSSATE, Bangalore
Dr. Kanchiraya S, GEC, Hassan
Dr. Mahesh T S, GEC, Hassan
Dr. Bharath K N, GMIT, Davanagere
Dr. Umashankar K S, KVGCE, Sulya

Program Coordinator

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

Faculty Coordinators

Prof. Eswariah K S
Prof. Sandeep K
Prof. Hariksha C R

Organizing Committee

Dr. Chandrashekharaiyah T M
Dr. Kiran T S
Prof. Siddalingaprasad T S
Prof. Aradhya S M
Prof. Mallikarjuna G B
Prof. Deepak Kumar N Y
Prof. Mamata Sarangamath
Prof. Rohith kumar H V
Prof. Dileep H B
Prof. Mahanthesh G
Prof. Naveen Kumari M E
Prof. Brijesh C
Prof. Ajay C K
Prof. Anil K

Compiled by:

Prof. Mamata Sarangamath
Prof. Naveen Kumari M E

Resource Persons

Dr. N K S Rajan, Principal Scientist, IISc, Bangalore

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

Dr. K R V Subramanian, MSRIT-Bangalore

Dr. Shashikantha Karinka, Prof. & Head - Dept. of ME , NMAMIT, Nitte

Dr. Niranjana Murthy, MSRIT-Bangalore

Dr. M G Ananda kumar, CPRI- Bangalore

Dr. V Saravanan CPRI- Bangalore

Dr. T N Sridhar , Prof. ME, NIE, Mysore

Dr. M S Govinde Gowda, Prof. & Dean Academics ATME Mysore

Dr. Jyothilakshmi R, MSRIT, Bangalore

Dr. Ramachandra C G, Presidency University, Bangalore

Dr. Arumuga Perumal D, NITK, Surathkal

Dr. R K Hegde Prof. SIT, Mangalore

Dr. N Gnanasekaran, NITK, Surathkal

Prof. Malathi, Pallagatti Adavappa Arts and Commerce First Grade College, Tiptur

Session schedules				
Date :17/02/2021 Wednesday				
Sessions	Time	Resource Persons	Topics	Address
1	9.30 -11.00 am	Inaugural Function		
2	11.30 -1.00 pm	Dr. N K S Rajan	Advanced Flow Simulations Involving Combustion and Heat Transfers	Principal Scientist IISc, Bangalore
3	2.30 – 4.00 pm	Dr. Viswanatha BM	Fundamentals of Thermodynamics	Professor & HOD KIT, Tiptur
Date :18/02/2021 Thursday				
1	9.30 - 11.00 am	Dr. K R V Subramanian	Hybrid Nano Fluids-Use and Future Prospects	MSRIT Bangalore
2	11.30 - 1.00 pm	Dr. Shashikantha Karinka	The Evolution, the Present and the Future of IC Engines	Professor & HOD Dept. of ME NMAMIT Nitte
3	2.30 – 4.00 pm	Dr. Niranjan Murthy	Multiple Jet Impingement (Heat Transfer Augumentation with Multiple Jet Impingement)	MSRIT Bangalore
Date :19/02/2021 Friday				
1	9.30 - 11.00 am	Dr. M G Anandakumar	Coal, its Quality and Impact Assessment-1	CPRI Bangalore
2	11.30 - 1.00 pm	Dr. V Saravanan	Coal, its Quality and Impact Assessment-2	CPRI Bangalore
3	2.30 – 4.00 pm	Dr. M G Anandakumar	Effects of Coal Combustion on Thermal Power Plant Boiler Components, their Remaining Life Assessment Through NDE.	CPRI Bangalore

Session schedules				
Date :20/02/2021 Saturday				
Sessions	Time	Resource Persons	Topics	Address
1	9.30 - 11.00 am	Dr. Sridhar T N	Steam Turbines	Prof. ME, NIE Mysore
2	11.30 - 1.00 pm	Dr. M S Govinde Gowda	Energy Transfer in Turbo Machines	Prof. & Dean Academics ATME Mysore
3	2.30 – 4.00 pm	Dr.Jyothi lakshmi	Biogasification as a Renewable Energy Option for Energy Sustainability	MSRIT Bangalore
Date :22/02/2021 Monday				
1	9.30 - 11.00 am	Dr.Ramachandra C G	Heat Transfer Enhancement in Heat Exchanger using Nano Fluids	Presidency University Bangaore
2	11.30 - 1.00 pm	Dr. Arumuga Perumal D	Computational Fluid Dynamics (CFD) Project Planning	NITK Surathkal
3	2.30 – 4.00 pm	Dr. R K Hegde	Wind and other Non Conventional Energy Sources	Professor & Head, SIT Mangalore
Date :23/02/2021 Tuesday				
1	9.30 - 11.00 am	Dr. N Gnanasekaran	Optimization Study on Fluid Flow and Heat Transfer through Metal Foams	NITK, Surathkal
2	11.30 - 1.00 pm	Prof. Malathi	Mental, Emotional development , stress management	PAAC, Tiptur
3	2.30 – 4.00 pm	Valedictory Function and Test		

Speaker:



Dr. N K S Rajan
Principal Scientist
IISc, Bangalore

Topic: **Advanced Flow Simulations Involving Combustion and Heat Transfer**

Date: 17/02/2021 **Link:** <https://meet.google.com/tns-iswo-eku>

- Highlights:**
- Flow simulations - CFD
 - Producer gas carburetor
 - CFD simulations
 - Flow visualization and analysis
 - Simulated experiments on engine and analysis

Speaker:



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

Topic: **Fundamentals of Thermodynamics**

Date: 17/02/2021 **Link:** <https://meet.google.com/tsa-uym-s-wdb>

- Highlights:**
- Introduction to engineering thermodynamics
 - Heat and work
 - First and second law of thermodynamics
 - Entropy
 - Ideal and real gases

Speaker:



Dr. K R V Subramanian

MSRIT
Bangalore

Topic: Hybrid nano fluids-use and future prospects

Date: 18/02/2021 **Link:** <https://meet.google.com/mxp-uhea-ovc>

- Highlights:**
- Ferro fluids introduction
 - Processes in Ferro fluids
 - Synthesis procedure
 - Hybrid Nano fluids
 - Challenges in hybrid Nano fluids

Speaker:



Dr. Shashikantha Karinka

Professor & HOD
Dept. of ME, NMAMIT Nitte

Topic: The evolution, the present and the future of IC Engines

Date: 18/02/2021 **Link:** <https://meet.google.com/eit-pwei-uev>

- Highlights:**
- History of IC engines
 - Evolution , present and future of IC engines
 - Different eras of automobiles
 - Safety norms
 - Recent developments

Speaker:



Dr. Niranjana Murthy
MSRIT
Bangalore

Topic: Multiple Jet Impingement (heat transfer augmentation with multiple jet impingement)

Date: 18/02/2021 **Link:** <https://meet.google.com/umy-hsng-vfk>

- Highlights:**
- Schematic diagram for multiple water and air jet impingement
 - Test parameters for water and air jet experiments
 - Data acquisition and data reduction
 - Effect of heat flux on heat transfer coefficient
 - Comparison of correlation for multiple water and air jet

Speaker:



Dr. M G Ananda kumar
Joint Director and Head of Training Division
CPRI
Bangalore

Topic: Coal, its Quality and Impact Assessment-1

Date: 19/02/2021 **Link:** <http://meet.google.com/hyk-meqd-ekd>

- Highlights:**
- Introduction about CPRI and its activities
 - Thermal power generation in India and across globe
 - Introduction about coal and its types and composition
 - Constituents of coal and its effect on power generation
 - Different types of analysis and Formation of coal

Speaker:



Dr. V Saravanan
Joint Director
CPRI- Bangalore

Topic: Coal, its Quality and Impact Assessment-2

Date: 19/02/2021 **Link:** <http://meet.google.com/ark-qree-oqp>

- Highlights:**
- Introduction about CPRI and facilities available.
 - Types of coal and Performance of different types of coal
 - Availability of coal across the globe. Ranking of coal and why and how to rank the coal
 - Ranking of coal available in India. Segregation of coal
 - Introduced about boilers used in power station

Speaker:



Dr. M G Ananda kumar
Joint Director and Head of Training Division
CPRI- Bangalore

Topic: Effects of coal combustion on thermal power plant boiler components, their Remaining Life Assessment through NDE.

Date: 19/02/2021 **Link:** <http://meet.google.com/gcu-wkkh-jfn>

- Highlights:**
- Coal milling methods and requirements and Coal quality parameters
 - Need for Remaining Life Assessment (RLA)
 - Mechanisms in boiler components.
 - Scale morphology by SEM techniques. Measurement of oxide scale growth kinematics by ultrasonic technique
 - Flow chart for RLA of boiler tubes

Speaker:



Dr. Sridhar T N

Prof. ME

NIE Mysore

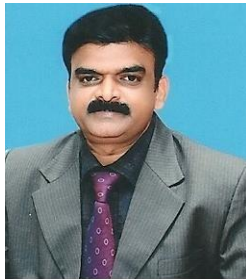
Topic: Steam Turbines

Date: 20/02/2021

Link: <http://meet.google.com/ohb-roza-bwz>

- Highlights:**
- Classification of steam turbines
 - Velocity triangles
 - Compounding of steam turbines
 - Velocity Compounding
 - Problems

Speaker:



Dr. M S Govinde Gowda

Prof. & Dean Academics

ATME

Mysore

Topic: Energy Transfer in Turbo Machines

Date: 20/02/2021

Link: <http://meet.google.com/tge-zhuk-hys>

- Highlights:**
- Turbo Machines introduction
 - Principle components of Turbo Machines
 - Velocity triangles
 - Important formulae for turbines
 - Power absorbing Turbo Machines

Speaker:



Dr. Jyothi Lakshmi
MSRIT
Bangalore

Topic: Biogasification as a renewable energy option for energy sustainability

Date: 20/02/2021 **Link:** <http://meet.google.com/vdi-dckz-ghp>

- Highlights:**
- Introduction to renewable energy
 - Biogas, anaerobic digestion
 - Stages in designing and operating biodigester, design and fabrication
 - Gas production process
 - Experimental designs

Speaker:



Dr. Ramachandra C G
Presidency University
Bangalore

Topic: Heat Transfer Enhancement in Heat Exchanger using Nano Fluids

Date: 22/02/2021 **Link:** <https://meet.google.com/szi-vrqq-kwa>

- Highlights:**
- Introduction to Heat Exchanger
 - Need for Heat Transfer Enhancement
 - Mechanism of augmentation of Heat Transfer
 - Introduction to nanofluids
 - Methods of producing nanoparticles/nanofluids

Speaker:



Dr. Arumuga Perumal D

NITK

Surathkal

Topic: Computational fluid dynamics (CFD) project planning

Date: 22/02/2021

Link: <https://meet.google.com/yex-rpkd-qfv>

Highlights:

- Introduction to CFD
- Governing equations-fluid flow and heat transfer
- Types of CFD codes
- CFD project planning
- CFD project execution

Speaker::



Dr. R K Hegde

Professor & Head

SIT Mangalore

Topic: Wind and other Non Conventional Energy sources

Date: 22/02/2021

Link: <https://meet.google.com/vem-irxs-wgp>

Highlights:

- Introduction to wind and wind energy
- Wind mill design and Wind mill turbines
- Wind turbine generators
- Yaw and pitch control in wind mill
- Wind turbine rotor aerodynamics

Speaker:



Dr. N Gnanasekaran
NITK
Surathkal

Topic: Optimization Study on Fluid Flow and Heat Transfer through Metal Foams

Date: 23/02/2021 **Link:** <https://meet.google.com/gmq-usgc-fxd>

- Highlights:**
- Introduction to metal foams
 - Computational domain with boundary condition
 - Governing equations for porous and non porous regions
 - Validation
 - TOPSIS

Speaker:



Prof. Malathi
PAAC
Tiptur

Topic: Mental, Emotional development , stress management

Date: 23/02/2021 **Link:** <https://meet.google.com/egy-eyir-acf>

- Highlights:**
- Stress introduction
 - Stressors
 - Stress experience
 - General adaptation syndrome
 - Stress management



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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 - 1)

On

February 17th to 23rd , 2021



Chief Guest : **Dr. Rangaswamy T**

Principal, GEC, Mosalehosahalli

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

Vice Presidents, KVS

Sri. S.S. Nataraj
Sri.G.K. Prabhu

Secretaries, KVS

Prof. Rajakumar
Sri.K.P.Rudramuniswamy
Sri.T.U. Jagadeeshmurthy

Treasurer, KVS

Sri. T.S. Shivaprasad

Program Coordinator

Dr. Viswanatha B M, HOD,ME

Convener

Dr. G.D. Gurumurthy, Principal

Faculty coordinators:

Prof. Eshwariah K S , Prof. Sandeep K, Prof. Harikesha C R

All are cordially invited

HOD and Staffs, Department of Mechanical Engineering

Date: **February 23rd, 2021**

Time: **2:30 pm**

Venue: Mech. 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, 17th to 23rd February 2021



Schedule of Sessions- Online (Google meet)

Schedule of Sessions- Online (Google meet)						
Sl. No.	Date	Session - 1 9.30 to 11.00am	11.00am to 11.30am	Session - 2 11.30 to 1.00pm	1.00pm to 2.30pm	Session - 3 2.30 to 4.00pm
1.	17.02.2021 (Wed)	Inaugural Function	B R E A K T E A	Dr. N K S Rajan Principal Scientist, IISc, Bangalore Advanced Flow Simulations Involving Combustion and heat transfers	B R E A K L U N C H	Dr. Viswanatha B M Prof. & Head, KIT, Tiptur Fundamentals of Thermodynamics
2.	18.02.2021 (Thu)	Dr. K R V Subramanian MSRIT-Bangalore Hybrid nano fluids-use and future prospects		Dr. Shashikantha Karinka Professor & Head - Dept. of ME NMAMIT, NITTE The evolution, the present and the future of IC Engines.		Dr. Niranjana Murthy MSRIT-Bangalore Multiple Jet Impingement (heat transfer augmentation with multiple jet impingement)
3.	19.02.2021 (Fri)	Dr. M G Anandakumar CPRI- Bangalore Coal, its Quality and Impact Assessment-1		Dr. V Saravanan CPRI- Bangalore Coal, its Quality and Impact Assessment-2		Dr. M G Anandakumar CPRI- Bangalore Effects of coal combustion on thermal power plant boiler components, their Remaining Life Assessment through NDE.
4.	20.02.2021 (Sat)	Dr. T N Sridhar Prof. ME, NIE, Mysore Steam Turbines		Dr. M S Govinde Gowda Prof. & Dean Academics ATME Mysore Energy Transfer in Turbo Machines		Dr. Jyothilakshmi R MSRIT, Bangalore Biogasification as a renewable energy option for energy sustainability
5.	22.02.2021 (Mon)	Dr. Ramachandra C G Presidency University, Bangalore Heat Transfer Enhancement in Heat Exchanger using Nano Fluids		Dr. Arumuga Perumal D NITK, Surathkal Computational Fluid Dynamics (CFD) Project Planning		Dr. R K Hegde Professor & Head, SIT, Mangalore Wind and other Non Conventional Energy sources
6.	23.02.2021 (Tue)	Dr. N Gnanasekaran NITK, Surathkal Optimization Study on Fluid Flow and Heat Transfer through Metal Foams		Prof. Malathi PAAC, Tiptur Mental, Emotional development, stress management		Valedictory Function and Test

Faculty Coordinators

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Coordinator:

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HOD & Professor
Dept of Mechanical Engg.
Ph: 8762018207

Convenor

Dr. G. D. Gurumurthy

Principal,
KIT, Tiptur

Appendix-II

Sl. No.	Name	Designation	Name of Institute or Organization
1	Kumara Swamy HS	Lecturer	Government Polytechnic Immadihalli
2	Vinoth raj D	Assistant Professor	Mount Zion College Of Engineering And Technology
3	Sushrut S. Halewadimath	Assistant Professor	K. L. E. Institute of technology
4	Kamala Priya Bysani	Assistant Professor	Lakireddy Bali Reddy College of Engineering
5	Dr Girish D P	Professor	Government Engineering College
6	Dr Mahesh T S	Associate Professor	Government Engineering College Hassan
7	B.N.Govindan.	Lecturer	Mohamed Sathak Polytechnic College
8	S Jesudass Thomas	Associate Professor	KCG College of Technology
9	Keerthi Kumar N	Assistant Professor	BMS Institute of Technology and Management
10	Dr. Shekasa Nadaf	Assistant Professor	Government Engineering College- Haveri, karnataka state, India
11	Shrikant Badi	Assistant Professor	SKSVMACET-Lakshmeshwar
12	Ravikumar J Talapati	Assistant Professor	KLS Vishwanathrao Deshpande Institute of Technology, Haliyal
13	Mahesh G	Assistant Professor	RYM Engineering College
14	Gundagani Saidulu	Assistant Professor	Mvsr Engineering College ,Nadargul
15	Shreenidhi Kulkarni	Assistant Professor	Kls Gogte Institute Of Technology. Belagavi
16	Shreehari Shaldar	Assistant Professor	Acharya Institute of Technology Bengaluru
17	Aravinda D	Assistant Professor	Dr Ambedkar Institute of Technology Bengaluru
18	T S Siddalingaprasad	Associate Professor	KIT tiptur
19	Dr. T M Chandrashekharaiiah	Professor	Kalpataru Institute of Technology, Tiptur
20	Venkatesh Deshpande	Assistant Professor	KLS Gogte Institute of Technology
21	Chandrasahsa C N	Lecturer	Govt polytechnic ramanagara
22	Ananda C.B	Lecturer	Government polytechnic,channasandra,kadugoudi post,bangalore-560067
23	Dr.Hemaraju	Associate Professor	Bgsit bg nagara
24	Venkatesh Rao H	Assistant Professor	Yenepoya Institute of Technology
25	Dr.Shivakumara N V	Lecturer	Government polytechnic, channasandra
26	Mallikarjuna G B	Assistant Professor	Kalpataru Institute of Technology, Tiptur
27	Dr. Raja Yateesh Yadav	Associate Professor	Shri Madhwa Vadiraja Institute of Technology and Management
28	Dr.Veeranna D.K	Professor	Belagavi
29	Venkatesan S	Assistant Professor	Arunai engineering college
30	Vinay S S	Assistant Professor	Government engineering college, mosalehosalli
31	Lavakumar K S	Assistant Professor	Acharya institute of technology
32	Mahanthesh.G	Assistant Professor	Kalpataru Institute of Technology, Tiptur
33	Akansha Srivastava	Assistant Professor	SMS Institute Of Technology
34	Mahantesh K Marikatti	Assistant Professor	SDM College Of Engineering And Technology Dharwad
35	Jonnala Subba Reddy	Associate Professor	Lakireddy Bali Reddy College Of Engineering, Mylavaram
36	Revanna K	Assistant Professor	Government Engineering College Chamrajanagar
37	Ranganatha Swamy Mk	Assistant Professor	JAIN Engineering College
38	Ramesha H	Assistant Professor	Shridevi Institute of Engineering & Technology
39	Abilash Desai	Assistant Professor	SDMCET, Dharwad
40	Narasimhaiah G	Lecturer	Government Polytechnic Immadihalli

41	Thara R	Assistant Professor	CIT, Gubbi, Tumkur
42	J Siddhartha Yadav	Assistant Professor	Raghu Engineering College
43	Dr. Jani Dilip Batukray	Associate Professor	Government Engineering College Dahod
44	Dr. Harshit B Kulkarni	Assistant Professor	KLS Gogte Institute of Technology
45	Abinash Behera	Assistant Professor	Majhighariani Institute of Technology and Science, Rayagada
46	Ajay C K	Assistant Professor	Kalahari Institute of Technology
47	Harikesha C R	Assistant Professor	Kalpataru Institute of Technology
48	Runu Das	Assistant Professor	College Of Engineering and Technology Bhubaneswar
49	Vivek Pandey	Assistant Professor	Mody University of Science and Technology
50	Dr. Pravin Anandrao Pawar	Assistant Professor	Metropolitan Institute of Technology and Management, Sindhudurg
51	Sushma S	Assistant Professor	CIT
52	Abhijith Jacob	Lecturer	SCMS College of Polytechnics Perumbavoor
53	Balaji.S	Assistant Professor	Reva university
54	Byregowda.K C	Assistant Professor	Dr. Ambedkar Institute Of Technology
55	Dr.Maheswar C Y	Assistant Professor	Sksvmacet,Laxmeshwar
56	Kishor Wagh	Assistant Professor	Guru Nanak Institute Of Engineering And Technology
57	Ranavare Vinod Ramchandra	Assistant Professor	SMSMP Institute of Technology and Research Akluj
58	Praveen Harari	Assistant Professor	Sant Gajanan Maharaj College of Engineering, Mahagaon, Kolhapur
59	Shivakumar Aravatagimath	Lecturer	Bldea's SSM Polytechnic, Vijayapur
60	Ganesh K	Assistant Professor	Nitte Meenakshi Institute Of Technology
61	Dr.M.S.Tattimani	Associate Professor	SKSVMACET ,Laxmeshwar
62	Vikram Kedambadi Vasu	Assistant Professor	Nitte Meenakshi Institute of Technology
63	Varun K R	Assistant Professor	The Oxford College of Engineering
64	Dr.Kanchiraya S	Assistant Professor	Government Engineering college, Hassan
65	Mr.Ajaykumar Bhoju Bhosale	Lecturer	Shivaji Polytechnic College, Sangola
66	Dr. V. S. Yaliwal	Assistant Professor	SDMCET
67	Dr Rajashekhara S	Assistant Professor	Siddaganga Institute of Technology
68	Mr. Paramesh Mallepakula	Assistant Professor	CMR Institute of Technology
69	Debdip Chakraborty	Assistant Professor	Calcutta Institute of Technology
70	Prashant Kakkamari	Assistant Professor	KLS Gogte Institute Of Technology,Belagavi
71	Avijit Saha	Assistant Professor	RCC Institute of Information Technology
72	Alim Shaikh	Assistant Professor	N. B. Navale Sinhgad College Of Engineering
73	Bishnu Narayan Mahapatra	Assistant Professor	College of Engineering and Technology, Bhubaneswar
74	Ashutosh Mishra	Mechanical Engineer	RGPV Bhopal
75	Mr.C.Natesamurthi	Associate Professor	Bharathidasan Engineering College, Natrampalli, Tirupattur Dt.
76	Praveen math	Assistant Professor	Reva University Bangalore
77	Sandeep K	Assistant Professor	Kalpataru Institute of Technology, Tiptur
78	Natesh C P	Assistant Professor	Channabasaveshwara Institute of Technology
79	Rohith kumar H V	Assistant Professor	Kalpataru Institute of Technology, Tiptur

APPENDIX III

Resource Persons

- Dr. N K S Rajan
Principal Scientist, IISc, Bangalore
- Dr. M S Govinde Gowda,
Prof. & Dean Academics
ATME Mysore
- Dr. T N Sridhar
Prof. ME, NIE, Mysore
- Dr. R K Hegde
Prof. SIT, Mangalore
- Dr. M G Ananda kumar
CPRI- Bangalore
- Dr. V Saravanan
CPRI- Bangalore
- Dr. Shashikantha Karinka
Prof. & Head - Dept. of ME
NMAMIT, NITTE
- Dr. Ramachandra C G
Presidency University, Bangalore
- Dr. K R V Subramanian
MSRIT-Bangalore
- Dr. Niranjan Murthy
MSRIT-Bangalore
- Dr. Jyothilakshmi R
MSRIT, Bangalore
- Dr. Arumuga Perumal D
NITK, Surathkal
- Dr. Viswanatha B M
Prof. & Head, KIT, Tiptur
- Dr. N Gnanasekaran
NITK, Surathkal
- Prof. Malathi
PAAC, Tiptur

Chief Patron

Sri P. K. Thipperudrappa
President KVS

Patrons

Vice President KVS

Sri. S S Natraj
Sri. G K Prabhu

Secretary KVS

Prof. Rajakumar
Sri. K P Rudramuniswamy
Sri. T U Jagadeeshamurthy

Treasurer KVS

Sri. T S Shivaprasad

Convener

Dr. G D Gurumurthy
Principal, KIT, Tiptur

Program Coordinator

Dr. Viswanatha B M, HOD Mechanical Engg

Faculty Coordinators

Prof. Eshwariah K S
Prof. Sandeep K
Prof. Harikesha C R

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Dr. Kiran T S
Prof. Siddalingaprasad T S
Prof. Aradhya S M
Prof. Mallikarjuna G B
Prof. Deepak Kumar N Y
Prof. Mamata Sarangamath
Prof. Rohith kumar H V
Prof. Dileep H B
Prof. Mahanthes G
Prof. NaveenKumari M E
Prof. Brijesh C
Prof. Ajay C K
Prof. Anil K

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One Week AICTE-ISTE Online
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On

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17/02/2021 to 23/02/2021

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ESTD: 1986

Organised by
**Department of
Mechanical Engineering**
KIT, Tiptur



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, Belgavi 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 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

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. A S Deshpande, Registrar, VTU, Belagavi
Dr. B E Rangaswamy, Registrar (Evaluation), VTU, Belagavi
Dr. S Basavarajappa, Registrar, IIT Dharwad
Dr. S M Shashidhara, Former Principal, KIT, Tiptur
Dr. Rangaswamy T, Principal, GEC, Mosalehosahalli
Dr. G S Shivashankar, SIT, Tumkur
Dr. M Prasanna Kumar, UBDTCE-Davanagere
Dr. Shasikantha Karinka, NMAMIT, Nitte
Dr. Mahadevaswamy P, SCE, Bangalore
Dr. Girisha C, AMC, Bangalore
Dr. Mrunthunjaya M, JSSATE, Bangalore
Dr. B P Shikvakumar, JSSATE, Bangalore
Dr. Kanchiraya S, GEC, Hassan
Dr. Mahesh T S, GEC, Hassan
Dr. Bharath K N, GMIT, Davanagere
Dr. Umashankar K S, KVGCE, Sulya

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 : **14-02-2021**

Confirmation of Seats : **15-02-2021**

Registration Link:

<https://forms.gle/V3eZEpifw7AcRwdDA>



Photo Gallery



Inauguration of One Week AICTE- ISTE Refresher Program on Thermal Engineering (Phase-1) on 17/02/2021



Inauguration with office bearers



Valedictory function on 23/02/2021



Family unit of Mechanical Engineering Department

Appendix-IV

ಶಿಕ್ಷಣದ ಜತೆಗೆ ತಾಂತ್ರಿಕ ಕೌಶಲ್ಯ ಅಗತ್ಯ: ವಿಜಯ ವೈದ್ಯ

• ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ ತಿಪಟೂರು

ಶಿಕ್ಷಣದ ಜೊತೆಗೆ ತಾಂತ್ರಿಕತೆಯ ಕೌಶಲ್ಯ ಮುಖ್ಯವಾಗಿದೆ. ಉಪನ್ಯಾಸಕರು ಆಳವಾದ ಅಧ್ಯಯನದಲ್ಲಿ ತಮ್ಮನ್ನು ತಾವು ತೊಡಗಿಸಿಕೊಂಡು ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಶಿಕ್ಷಣ ನೀಡಿದರೆ ವಿದ್ಯಾರ್ಥಿಗಳ ಉನ್ನತ ವ್ಯಾಸಂಗಕ್ಕೆ ಸಹಕಾರಿಯಾಗಲಿದೆ ಎಂದು ನವದೆಹಲಿ ಐಎಸ್ ಟಿಇ ಕಾರ್ಯಕಾರಿ ಕಾರ್ಯದರ್ಶಿ ಪ್ರೊ. ವಿಜಯ ವೈದ್ಯ ತಿಳಿಸಿದರು.

ನಗರದ ಕಲ್ಪತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗದಿಂದ ಕಾಲೇಜಿನ ಆಡಿಟೋರಿಯಂನಲ್ಲಿ ನವದೆಹಲಿಯ ಆಲ್ ಇಂಡಿಯಾ ಕೌನ್ಸಿಲ್ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಮತ್ತು ಇಂಡಿಯನ್ ಸೊಸೈಟಿ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಸಂಸ್ಥೆಯ ವತಿಯಿಂದ ಮೂರು ವಾರಗಳ ಕಾಲ ಹಮ್ಮಿಕೊಂಡಿರುವ



ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಶೀರ್ಷಿಕೆಯ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಆನ್ ಲೈನ್ ಮೂಲಕ ಮಾತನಾಡಿದರು.

ಕಲ್ಪತರು ವಿದ್ಯಾ ಸಂಸ್ಥೆ ಅಧ್ಯಕ್ಷ ಪಿ.ಕೆ. ತಿಪ್ಪೇರುದ್ರಪ್ಪ ಕಾರ್ಯಾಗಾರದ ಅಧ್ಯಕ್ಷತೆಯನ್ನು ವಹಿಸಿ, ಈ ಕಾರ್ಯಾಗಾರವು ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜುಗಳ ಉಪನ್ಯಾಸಕರಿಗೆ ಬಹಳ

ಉಪಯುಕ್ತವಾಗಿದ್ದು ಸುರಿತ ಉಪನ್ಯಾಸಕರು ಉಪನ್ಯಾಸ ನೀಡುವುದರಿಂದ ಜ್ಞಾನಶಕ್ತಿಯು ಹೆಚ್ಚಾಗಲಿದೆ. ಇದರಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಲುವಾಗಿ ಬೋಡಿಸಲು ಸಹಕಾರಿಯಾಗಿದೆ ಎಂದರು.

ಕೆ.ವಿ.ಎಸ್ ಕಾರ್ಯದರ್ಶಿ ಪ್ರೊ. ರಾಜಕುಮಾರ್ ಮಾತನಾಡಿದರು. ಧಾರವಾಡದ ಐಐಟಿ ರಿಜಿಸ್ಟ್ರಾರ್ ಡಾ. ಎಸ್. ಬಸವರಾಜಪ್ಪನವರು ಆನ್ ಲೈನ್ ಮೂಲಕ ಶುಭ ಕೋರಿದರು. ಕೆ.ವಿ.ಎಸ್ ಬಿಜಾಂಟಿಟಿ.ಎಸ್. ತಿವಪ್ಪಸಾದ್, ಕಾರ್ಯದರ್ಶಿ ಟಿ.ಯು. ಜಗದೀಶ್ ಮೂರ್ತಿ, ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ, ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ.ಎಂ. ವಿಶ್ವನಾಥ್, ಉಪನ್ಯಾಸಕರಾದ ಪ್ರೊ. ಕೆ.ಎಸ್. ಈಶ್ವರಯ್ಯ, ಹರಿಕೇಶ್, ಡಾ. ಟಿ.ಎಸ್. ಕಿರಣ್ ಇದ್ದರು.

ಸ್ಪರ್ಧಾತ್ಮಕ ಯುಗದಲ್ಲಿ ತಾಂತ್ರಿಕ ಜ್ಞಾನ ಅವಶ್ಯ

ತಿಪಟೂರು: ಆಧುನಿಕ ಯುಗದಲ್ಲಿ ಜಗತ್ತಿಗೆ ತಾಂತ್ರಿಕತೆ ಅತ್ಯವಶ್ಯಕವಾಗಿದೆ. ಉಪನ್ಯಾಸಕರು ಹೊಸ ತಾಂತ್ರಿಕತೆ ಜ್ಞಾನವನ್ನು ಪಡೆದುಕೊಂಡರೆ, ಬೋಧನೆ ಜೊತೆಗೆ ಹೊಸ ಹೊಸ ಸಂಶೋಧನೆಗಳಲ್ಲಿ ತೊಡಗಿಸಿಕೊಳ್ಳಲು ಸಹಕಾರಿಯಾಗಲಿ ಎಂದು ಹಾಸನ ಜಿಲ್ಲೆ ಮೊಸಳೆ ಹೊಸಹಳ್ಳಿ ಸರ್ಕಾರಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ರಂಗಸ್ವಾಮಿ ತಿಳಿಸಿದರು.

ನಗರದ ಕಲ್ಪತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ನವದೆಹಲಿ ಆಲ್ ಇಂಡಿಯಾ ಕೌನ್ಸಿಲ್ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಮತ್ತು ಇಂಡಿಯನ್ ಸೊಸೈಟಿ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಸಂಸ್ಥೆಯಿಂದ ಹಮ್ಮಿಕೊಂಡಿದ್ದ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಮಾತನಾಡಿ, ಯುವ ಉಪನ್ಯಾಸಕರಿಗೆ ಹಾಗೂ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗಿರುವ ಉಪನ್ಯಾಸಕರುಗಳಿಗೆ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರ ಬಹಳ ಉಪಯುಕ್ತವಾಗಲಿದೆ. ಸುರಿತ ಹಾಗೂ ಅನುಭವಿ ಉಪನ್ಯಾಸಕರಿಂದ ಉಪನ್ಯಾಸ ನೀಡಲಾಗುತ್ತಿದ್ದು, ದೇಶದ ವಿವಿಧ ಭಾಗದ ಉಪನ್ಯಾಸಕರು ಪ್ರಯೋಜನ ಪಡೆದುಕೊಳ್ಳುತ್ತಿದ್ದಾರೆ ಎಂದರು. ಕೆ.ವಿ.ಎಸ್ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ, ಮೆಕಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ.ಎಂ. ವಿಶ್ವನಾಥ್, ಕಾರ್ಯಕ್ರಮದ ಉಸ್ತುವಾರಿ ಪ್ರೊ. ಕೆ.ಎಸ್. ಈಶ್ವರಯ್ಯ, ಸಿ.ಆರ್. ಹರಿಕೇಶ್, ಡಾ. ಕಿರಣ್ ಇದ್ದರು.



ತಿಪಟೂರು ಪಟ್ಟಣದ ಕಲ್ಪತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಸೊಸೈಟಿ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರ ನಡೆಯಿತು.

ತಾಂತ್ರಿಕತೆ ಜ್ಞಾನ ಅಗತ್ಯ: ಪ್ರಾಂಶುಪಾಲ ರಂಗಸ್ವಾಮಿ

ತಿಪಟೂರು: ಆಧುನಿಕ ಯುಗದಲ್ಲಿ ಜಗತ್ತಿಗೆ ತಾಂತ್ರಿಕತೆಯ ಅತ್ಯವಶ್ಯಕವಾಗಿದ್ದು ಉಪನ್ಯಾಸಕರು ಹೊಸ ಹೊಸ ತಾಂತ್ರಿಕತೆಯ ಜ್ಞಾನವನ್ನು ಪಡೆದುಕೊಳ್ಳಬೇಕು ಎಂದು ಹಾಸನ ಜಿಲ್ಲೆಯ ಮೊಸಳೆ ಹೊಸಹಳ್ಳಿ ಸರ್ಕಾರಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ರಂಗಸ್ವಾಮಿ ಅಭಿಪ್ರಾಯಪಟ್ಟರು. ನಗರದ ಕಲ್ಪತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ನವದೆಹಲಿಯ ಆಲ್ ಇಂಡಿಯಾ ಕೌನ್ಸಿಲ್ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಮತ್ತು ಇಂಡಿಯನ್ ಸೊಸೈಟಿ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಸಂಸ್ಥೆಯ ವತಿಯಿಂದ ಹಮ್ಮಿಕೊಂಡಿದ್ದ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಆನ್ ಲೈನ್ ಮೂಲಕ ಮಾತನಾಡಿದ ಅವರು, ಯುವ ಉಪನ್ಯಾಸಕರು ಹಾಗೂ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗಿರುವ ಉಪನ್ಯಾಸಕರಿಗೆ ಕಾರ್ಯಾಗಾರವು ಬಹಳ ಉಪಯುಕ್ತವಾಗಲಿದೆ. ಸುರಿತ ಹಾಗೂ ಅನುಭವಿ ಉಪನ್ಯಾಸಕರು ಉಪನ್ಯಾಸ ನೀಡುತ್ತಿದ್ದು ದೇಶದ ವಿವಿಧ ಭಾಗದ ಉಪನ್ಯಾಸಕರು ಪ್ರಯೋಜನ ಪಡೆದುಕೊಳ್ಳುತ್ತಿದ್ದಾರೆ ಎಂದರು. ಈ ಸಂದರ್ಭದಲ್ಲಿ ಕೆ.ವಿ.ಎಸ್ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ, ಮೆಕಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ.ಎಂ. ವಿಶ್ವನಾಥ್, ಕಾರ್ಯಕ್ರಮದ ಉಸ್ತುವಾರಿ ಪ್ರೊ. ಕೆ.ಎಸ್. ಈಶ್ವರಯ್ಯ, ಪ್ರೊ. ಸಿ.ಆರ್. ಹರಿಕೇಶ್, ಡಾ. ಕಿರಣ್ ಮತ್ತಿತರರಿದ್ದರು. ಮುಂದಿನ ಎರಡು ವಾರಗಳ ಕಾಲ ನಡೆಯುವ ಈ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಕಲ್ಪತರು ವಿದ್ಯಾ ಸಂಸ್ಥೆಯ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ಪದಾಧಿಕಾರಿಗಳು ಅಭಿನಂದನೆ ಸಲ್ಲಿಸಿದ್ದಾರೆ.



ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ, ಮೆಕಾನಿಕಲ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ.ಎಂ. ವಿಶ್ವನಾಥ್ ಮತ್ತಿತರರು.

ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರ

ತಿಪಟೂರು: ನಗರದ ಕಲ್ಪತರು ತಾಂತ್ರಿಕ ವಿವಿ ಮೆಕಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗದಿಂದ ಮೂರುವಾರಗಳ ಕಾಲ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಶೀರ್ಷಿಕೆಯಡಿ ಮೊದಲನೇ ಹಂತದ ಕಾರ್ಯಾಗಾರವನ್ನು ಕಾಲೇಜಿನ ಆಡಿಟೋರಿಯಂನಲ್ಲಿ ಫೆ.17ರ ಬುಧವಾರದಿಂದ ಫೆ.23ರವರೆಗೆ ಬೆಳಿಗ್ಗೆ 9.30ಕ್ಕೆ ಹಮ್ಮಿಕೊಳ್ಳಲಾಗಿದೆ. ಮುಖ್ಯ ಅತಿಥಿಗಳಾಗಿ ಧಾರವಾಡದ ಐಐಟಿ ರಿಜಿಸ್ಟ್ರಾರ್ ಡಾ. ಎಸ್. ಬಸವರಾಜಪ್ಪ, ನವದೆಹಲಿ ಐಎಸ್ ಟಿಇ ಎಕ್ಸಿಕ್ಯೂಟಿವ್ ಸೆಕ್ರೆಟರಿ ಪ್ರೊ. ವಿಜಯ ಡಿ. ವೈದ್ಯ, ಕೆ.ವಿ.ಎಸ್ ಅಧ್ಯಕ್ಷ ಪಿ.ಕೆ. ತಿಪ್ಪೇರುದ್ರಪ್ಪ, ಉಪಾಧ್ಯಕ್ಷರಾದ ಜಿ.ಕೆ. ಪ್ರಭು, ಎಸ್.ಎಸ್. ನಟರಾಜ್, ಕಾರ್ಯದರ್ಶಿಗಳಾದ ಕೆ.ಪಿ. ರುದ್ರಮುನಿಸ್ವಾಮಿ, ಪ್ರೊ. ರಾಜಕುಮಾರ್, ಟಿ.ಯು. ಜಗದೀಶ್ ಮೂರ್ತಿ, ಬಿಜಾಂಟಿ ಟಿ.ಎಸ್. ತಿವಪ್ಪಸಾದ್, ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ ಸೇರಿದಂತೆ ದೇಶದ ವಿವಿಧ ತಾಂತ್ರಿಕ ಕಾಲೇಜುಗಳಿಂದ ಸುಮಾರು 150ಕ್ಕೂ ಹೆಚ್ಚು ಉಪನ್ಯಾಸಕರು ಭಾಗವಹಿಸಲಿದ್ದಾರೆ ಎಂದು ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ.ಎಂ. ವಿಶ್ವನಾಥ್ ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆಯಲ್ಲಿ ತಿಳಿಸಿದ್ದಾರೆ.

Newspaper clippings about the program on 'Thermal Engineering'

ಶಿಕ್ಷಣದ ಜೊತೆ ತಾಂತ್ರಿಕತೆ ಕೌಶಲ್ಯ ಅಗತ್ಯ

ತಿಪಟೂರು: ಶಿಕ್ಷಣದ ಜೊತೆಗೆ ತಾಂತ್ರಿಕತೆ ಕೌಶಲ್ಯ ಮುಖ್ಯವಾಗಿದೆ. ಉಪನ್ಯಾಸಕರು ಆಳವಾದ ಅಧ್ಯಯನದಲ್ಲಿ ತಮ್ಮನ್ನು ತಾವು ತೊಡಗಿಸಿಕೊಂಡು ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಶಿಕ್ಷಣ ನೀಡಿದರೆ, ವಿದ್ಯಾರ್ಥಿಗಳ ಉನ್ನತ ಮ್ಯಾಸಂಗಕ್ಕೆ ಸಹಕಾರಿಯಾಗಲಿದೆ ಎಂದು ನವದೆಹಲಿ ಐಎಸ್‌ಟಿಇ ಎಕ್ಸಿಕ್ಯೂಟಿವ್ ಸೆಕ್ರೆಟರಿ ಪ್ರೊ.ಡಿ.ವಿಜಯ ಶಿಲಿಸಿದರು.

ನಗರದ ಕಲ್ತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ನವದೆಹಲಿಯ ಆಲ್ ಇಂಡಿಯಾ ಕೌನ್ಸಿಲ್ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಶನ್ ಮತ್ತು ಇಂಡಿಯನ್ ಸೊಸೈಟಿ ಫಾರ್ ಟೆಕ್ನಿಕಲ್ ಎಜುಕೇಷನ್ ಸಂಸ್ಥೆಯಿಂದ ಮೂರು ವಾರಗಳ ಕಾಲಹಮ್ಮಿಕೊಂಡಿರುವ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಶೀರ್ಷಿಕೆ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಆನ್‌ಲೈನ್ ಮೂಲಕ ಮಾತನಾಡಿ, ನಮ್ಮ ಸಂಸ್ಥೆಗಳು ಈ ರೀತಿಯ ಅನುದಾನವನ್ನು ಪ್ರತಿ ಕಾಲೇಜಿಗೆ ನೀಡುತ್ತಾ ಬಂದಿತ್ತು. ಇದರ ಅನುದಾನ ಆಡಿಯಲ್ಲಿ ಕಲ್ತರು ಮೆಕ್ಯಾನಿಕ್ ವಿಭಾಗವು ಆಯ್ಕೆಯಾಗಿದ್ದು ಯುವ ಉಪನ್ಯಾಸಕರುಗಳು ಕಾರ್ಯಾಗಾರದ ಪ್ರಯೋಜನ ಪಡೆದು ಕೊಳ್ಳಬೇಕೆಂದರು.

ಕಲ್ತರು ವಿದ್ಯಾಸಂಸ್ಥೆ ಅಧ್ಯಕ್ಷ ಪಿ.ಕೆ.ತಿಪ್ಪೇರುದ್ರಪ್ಪ



ತಿಪಟೂರಿನ ಕಲ್ತರು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ನಡೆದ ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ನವದೆಹಲಿ ಐಎಸ್‌ಟಿಇ ಎಕ್ಸಿಕ್ಯೂಟಿವ್ ಸೆಕ್ರೆಟರಿ ಪ್ರೊ.ವಿಜಯ ಮಾತನಾಡಿದರು.

ಮಾತನಾಡಿ, ಈ ಕಾರ್ಯಾಗಾರವು ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜುಗಳ ಉಪನ್ಯಾಸಕರಿಗೆ ಬಹಳ ಉಪಯುಕ್ತವಾಗಿದ್ದು, ಜ್ಞಾನಶಕ್ತಿಯು ಹೆಚ್ಚಾಗಲಿದೆ. ಇದರಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಲುವಾಗಿ ಬೋಧಿಸಲು ಸಹಕಾರಿಯಾಗಿದೆ. ಮೆಕ್ಯಾನಿಕ್‌ನ ವಿಭಾಗವು ಈ ರೀತಿಯ ಕಾರ್ಯಕ್ರಮವನ್ನು ಅಯೋಜಿಸಿ ಕಾಲೇಜಿನ ಫನತೆಯನ್ನು ಎತ್ತಿಹಿಡಿದಿದೆ ಎಂದರು.

ಕೆಎಎಸ್ ಕಾರ್ಯದರ್ಶಿ ಪ್ರೊ.ರಾಜಕುಮಾರ್ ಮಾತನಾಡಿ, ಥರ್ಮಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗವು ಮೆಕ್ಯಾನಿಕ್‌ನ ವಿಭಾಗವಾಗಿದ್ದು, ಈ

ವಿಷಯವು ರಿಪ್ರಿಜಿಯೇಟರ್, ಎದ್ಯುಟ್ ಉತ್ಪಾದನೆ, ಹವಾನಿಯಂತ್ರಿತ ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಬಹಳ ಉಪಯೋಗವಾಗುತ್ತಿದೆ ಎಂದು ಹೇಳಿದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಧಾರವಾಡದ ಐಐಟಿ ರಿಜಿಸ್ಟ್ರಾರ್ ಡಾ.ಎಸ್.ಬಸವರಾಜಪ್ಪ, ಕೆಎಎಸ್ ವಿಜಾಂಟಿ ಟಿ.ಎಸ್. ಶಿವಪ್ರಸಾದ್, ಕಾರ್ಯದರ್ಶಿ ಟಿ.ಯು. ಜಗದೀಶ್ ಮೂರ್ತಿ, ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಜಿ.ಡಿ. ಗುರುಮೂರ್ತಿ, ಡಾ.ಬಿ.ಎಂ.ವಿಶ್ವನಾಥ್, ಪ್ರೊ.ಕೆ.ಎಸ್.ಈಶ್ವರಯ್ಯ, ಹರಿಕೇಶ್, ಡಾ.ಟಿ.ಎಸ್. ಕಿರಣ್ ಭಾಗವಹಿಸಿದ್ದರು.

Newspaper clippings about the program on 'Thermal Engineering'

“Science can amuse and fascinate us all, but it is engineering that changes the world.”

– *Isaac Asimov*

Thank you