

Kalpataru Vidya Samsthe®

# KALPATARU INSTITUTE OF TECHNOLOGY

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

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## DEPARTMENT OF MECHANICAL ENGINEERING



Newsletter

2020-21

# Royal reflex





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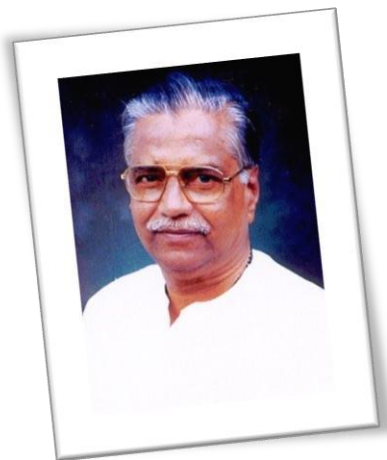


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## From President's desk

I am very happy to present this Newsletter which is most useful in providing information to the students and faculty members about the recent noted developments that have materialized in the Institute. The editorial team has evinced a lot of interest to collect and collate information from all the departments and has made a sincere effort at bringing out a useful Newsletter. I congratulate them for their brilliant efforts.



**P K Thipperudrappa**  
President, KVS

## From Treasurer's desk

I am overwhelmed to learn that the department of Mechanical Engineering is bringing out its 6<sup>th</sup> news letter. I congratulate the Dr. Viswanatha B M, Head of the Mechanical Department and his young team who have initiated this unique way of presenting the various activities conducted by the department in academic year 2020-21. The team has strived hard in organizing the events and has put in a lot of effort to bring out this news letter. I congratulate the entire faculty and the technical staff who have lent their support to bring out this news letter.



**T S Shivaprasad**  
Treasurer, KVS

## From Vice President's desk

I heartily congratulate the HOD and Staff of Department of Mechanical Engineering in organizing different events like workshop, seminar and Faculty development programs throughout the academic year for the upgradation of technical knowledge among students and faculties



**B S Umesh**  
Vice President, KVS

## From Secretary desk

I am happy to see the 6<sup>th</sup> edition of Mechanical Engineering Department Newsletter which would give the details of all the important activities that were conducted on the campus in the 2020-21 year.



**T S Shivaprasad**  
Secretary, KVS

## From Principal's desk

I am very delighted to present this Newsletter which would shed light on the important activities that were conducted on the campus in the recent past. I feel happy for the Department of Mechanical Engineering as it has successfully completed 29 years of precious service in the field of academics.



**Dr. G. D Gurumurthy**  
Principal, KIT

## From HOD's desk

I am utterly glad to welcome 6<sup>th</sup> edition of Mechanical Department news-letter for the academic year 2020-21. Newsletter provides an active insight into major achievements consummate by the students and the faculty members. I applaud the priceless efforts of my squad members in this initiation and thank them sincerely.



**Dr. Viswanatha B M**  
HOD, ME, KIT



## About Department



The Department was established in the year 1992 with an initial intake of 30 which further was enhanced in two stages to 60 in the first stage and then to 120 in the second stage. The department is currently headed by Dr Viswanatha B M, Professor & HOD. The department is in optimum demand since its inception to till date. The department is blessed with highly qualified, well experienced, committed faculty members. The department has 3 eminent Professors,, Dr. Viswanatha B M, Dr. T M Chandrashekaraiah and Dr. T S Kiran with Ph.D degrees. Mr. Eshwaraiah K S, Mr T S Siddalingaprasad, Mr. Mallikarjuna G B, Mr. Rohithkumar H V and Mrs. Naveena Kumari E are pursuing their Ph.D degree program in different universities. The Department has a Research & Development center recognized by VTU, Belagavi and Tumkur University. Research & Development center has received Rs.20 lakhs grant to setup Tribological study research laboratory, the program co-ordinator is Dr.Chandrashekaraiah T M and Rs.30 lakhs grant to setup Energy conversion research laboratory, the program co-ordinator is Dr.Viswanatha B M from VGST, Govt. of Karnataka. The department organizes symposiums, workshops and seminars under Mechanical Engineering Association every year.

## Vision and mission

### **Vision:**

To be a Centre of Academic and research excellence in Mechanical Engineering committed by sculpting competent engineers enriched with professional ethics to serve the needs of society.

### **Mission:**

**M1:** Imparting quality education to students to excel in Mechanical Engineering.

**M2:** Develop state-of-the-art facilities with emphasis on industry interaction, consultancy, research and innovation.

**M3:** Inculcating ethics, human values for solving societal problems and environmental protection

## Staff's achievements

❑ **Dr. Viswanatha B M**, Professor, Department of Mechanical Engineering has reviewed research article and review board member of number of journals.

1. Metallurgical and Materials Transactions A (Springer)
2. Industrial lubrication and Tribology
3. Bulletin of the Chemical Society of Ethiopia (Open access)
4. Material Research-scholar one Manuscript
5. Ultra Engineer, An International, open access, peer reviewed research Journal of engineering science (Open access, Google scholar)
6. European Journal Engineering Research and Science- Belgium (Open access, Google scholar)
7. Board member: The open materials Engineering
8. Executive Guest Editors: Current Graphene Science (CGS)

❑ **Dr. T. M. Chandrashekharaiiah**, Professor,  
9. BOE for VTU, Belagavi

❑ **Dr. Kiran T S**, Professor,  
10. BOE for VTU, Belagavi  
11. Reviewer for JESTEC, Malaysia  
12. Reviewer for JMRT, Elsevier  
13. Reviewer for Material Science Kaunas University, Malaysia



## Seminars , FDP, e-Quiz organised/conducted

1. Online e-Quiz was organized by the Department on 01/08/2020 which was based on **“Mechanics of Materials”** for students and faculties across the state and coordinated by **Mr. S M Aradhya and Mr. Sandeep K**
2. Online e-Quiz was organized by the Department on 14/08/2020 which was based on **“Theory of Machines”** for students and faculties across the state and coordinated by **Mr. Rohith Kumar H V and Mr. Mahanthesh G.**
3. Online e-Quiz was organized by the Department on 17/08/2020 which was based on **“Elements of Mechanical Engineering”** for students and faculties across the state and coordinated by **Mrs. Mamata Sarangamath and Mrs. Naveen Kumari M E.**
4. Online e-Quiz was organized by the Department on 22/08/2020 which was based on **“Basics of Thermal Engineering”** for students and faculties across the state and coordinated by **Mr. Hariksha C R and Mr. Deepak Kumar N Y.**
5. Webinar was organized by the Department on 04/12/2020 which was based on **“Making India 3D Ready”** by **Mr. Bibhu Mohapatra, Chief Operating Officer.**
6. Online FDP AICTE – ISTE Refresher Program was organized by the Department which was based on **“Thermal Engineering”**, 17th to 23rd February 2021.
7. Online FDP AICTE – ISTE Refresher Program was organized by the Department which was based on **“Thermal Engineering”**, 17th to 23rd March 2021.
8. Online FDP AICTE – ISTE Refresher Program was organized by the Department which was based on **“Thermal Engineering”**, 22<sup>nd</sup> to 27<sup>th</sup> April 2021.

## Research publications

1. T. M. Chandrashekharaiiah, Devappa, “Statistical Analysis of Ultimate Tensile Strength of Grain Refined and Modified Al-Si Alloys (LM-25, LM-6 and LM-30) Using ANOVA, International Journal of Scientific & Engineering Research Volume 12, Issue 2, February-2021, ISSN 2229-5518.
2. T M Chandrashekharaiiah, Satya Prema, “Statistical Analysis to Identify the Significant Parameters that Affect the Torque and Thrust of Grain Refined and Modified Al- Si Alloys (LM-25, LM-6 and LM-30) Using ANOVA”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 18, Issue 2 Ser. III (Mar. – Apr. 2021), PP 12-24.
3. T M Chandrashekharaiiah, Satya Prema, “Statistical Analysis of the Parameters Influencing the Surface Roughness of Grain Refined and Modified Al-Si Alloys (LM25, LM6 and LM30) using ANOVA”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 16, Number 4 (2021) pp. 321-326.
4. T S Siddalingaprasad, H S Shivashankar, R kumar “Experimental investigation on wear behavior of as cast and heat treated D-type tool steel-A comparative study” GIS science journal ISSN 1869 - 9391, vol 7, Issue 8, 2020, p 506-512.

## Technical / research article published in International conference

1. T.S Siddalingaprasad, H S Shivashankar, T M Chandrshekhariah, BasavarajGanigar  
“Analysis of machining parameters of materials using forged and heat treated D type cutting tool” International conference ICGCP2021 16th July 21
2. Mr. Mallikarjuna G B, article titled Tensile And Impact Behaviour Of Al-Silica Metal Matrix Composites At International Conference On “Advances In Mechanical Engineering (I-Name 2k20)” held at JNNCE, Shivamogga on 6th to 7th Nov 2020.

## Seminar Presented by Faculties

1. Dr. Viswanatha B M, Technical Speaker for One week Refresher program on Engineering- Phase-3 “Overview of Thermal Engineering” , “Vapor Power cycle” & “Pure Substance, Ideal & Real Gases” sponsored by AICTE-ISTE-New Delhi on April 22nd to 28th 2021 at Kalpataru Institute of Technology –Tiptur, karnataka
2. Dr. Viswanatha B M, Technical Speaker for One week Refresher program on Thermal Engineering- Phase-2 “Gas power cycles” sponsored by AICTE-ISTE-New Delhi on March 17th to 23rd 2021 at Kalpataru Institute of Technology –Tiptur, karnataka
3. Dr. Viswanatha B M, Technical Speaker for One week Refresher program on Thermal Engineering- Phase-1 “Fundamentals of Thermodynamics” sponsored by AICTE-ISTE-New Delhi on February 17th to 23 2021 at Kalpataru Institute of Technology – Tiptur, Karnataka
4. Mr. Harikesha C R, Technical Speaker for One week Refresher program on Thermal Engineering- Phase-1 “Solar Energy” sponsored by AICTE-ISTE-New Delhi on February 17th to 23 2021 at Kalpataru Institute of Technology –Tiptur, Karnataka
5. Mr. Harikesha C R, Participated as resource person in the Training for Trainers (TOT) On „Solar Lighting Technology and Skill Development Program For Instructors of Govt.ITI & Polytechnic Institutes” held on 16th March 2021 at Govt Industrial Training Institute, Govt. ITI, Hadadi Road, Davangere. Organized by MARSS-K and MGIRED, Department of Rural Development and Panchayat Raj, Government of Karnataka.

## Workshop/FDP attended by Faculties/Staffs

Sl. No.	Name of the faculty	Name of the Short term course/Workshop/ Summer course/ Attended	College/ Organization	Duration	No. of Days	Remarks
1	Dr. T M Chandrashekharaiah	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
2		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
3		“Latex”	AMCEC, Bangalore	29/06/2020 to 01/07/2020	03	Online workshop
4		“Advanced Technologies in Materials & Manufacturing Engineering”	DSUSE, Bengaluru	06/07/2020 to 11/07/2020	06	FDP
5		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
6	Dr. T.S. Kiran	“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
7		“Strategy for Enhancing Article Citation and H-Index”	ACSCE, Bangalore	11/05/2020	01	Online webinar
8		“COVID 19-Before & After”	MaTPO	21/05/2020	01	Placement training
9		“IEEE Bangalore Humanitarian Technology Conference	IEEE Bangalore	08/10/2020 to 10/10/2020	03	Appreciation
10		“Unnat Bharat Abhiyan”		29/11/2020 to 09/05/2021		
11	Eshwaraiah K S	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
12		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
13		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
14	Siddalingaprasa T S	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
15		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
16		“Integrated Waste Management”- Program - 3	AIT&M, Belagavi	14/12/2020 to 19/12/2020	06	Online FDP



## Workshop/FDP attended by Faculties/Staffs

Sl. No.	Name of the faculty	Name of the Short term course/Workshop/ Summer course/ Attended	College/ Organization	Duration	No. of Days	Remarks
17	Mallikarjuna G B	“Advances in Machining Process”	PESIT&M, Shivamogga	17/07/2020 to 19/07/2020	03	Online FDP
18		“Research Methodology and Data Analysis”	KSTA, Bangalore	17/06/2020 to 20/06/2020	04	Online webinar
19		“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
20		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
21		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
22		“Internship at Startups”	CIT, Gubbi	12/12/2020	01	Webinar
23	Deepak Kumar N Y	“Integrated Waste Management”- Program -3	AIT&M, Belagavi	14/12/2020 to 19/12/2020	06	Online FDP
24		“Outcome Based Education & Accreditation Criteria”	Dr. AIT, Bangaluru	10/10/2020	01	
25	Mamata S Sarangamath	“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
26	Rohith Kumar H V	“Advanced Materials Technology”	MCE, Hassan	01/07/2020 to 05/07/2020	05	Online FDP
27		“Materials Characterization using DMA”	AIT, Bangalore	06/07/2020 to 10/07/2020	05	Online Workshop
28		“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
29		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
30		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
31	Mahanthesh G	“Integrated Waste Management”	AIT&M, Belagavi	14/12/2020 to 19/12/2020	06	Online FDP
32		“Thermal Engineering”	KIT, Tiptur	17/02/2021 to	06	Online FDP

## Workshop/FDP attended by Faculties/Staffs

Sl. No.	Name of the faculty	Name of the Short term course/Workshop/ Summer course/ Attended	College/ Organization	Duration	No. of Days	Remarks
33	Mahanthesh G	“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
34		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
35	Sandeep K	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
36		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
37		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
38		“Additive Manufacturing: Application, Challenges and Future Scope”	VIT&S, Deshmukhi	22/05/2021	01	Online Webinar
39	Harikesha C R	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
40	Naveen Kumari M.E	“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
41		“Technological Trends in Industry”	VIT, Bangalore	29/06/2020 to 03/07/2020	05	Online FDP
42	Brijesh C	“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
43		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
44		“Outcome Based Education & Accreditation Criteria”	Dr. AIT, Bangaluru	10/10/2020	01	
45		“3D Printing Technology as a Buisness model for a Product Development”	CIT, Bangalore	14/07/2021	01	Online Webinar
46	Ajay C K	“Thermal Engineering”	KIT, Tiptur	17/02/2021 to 23/02/2021	06	Online FDP
47		“Thermal Engineering”	KIT, Tiptur	17/03/2021 to 23/03/2021	06	Online FDP
48		“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP
49	Anil K	“Thermal Engineering”	KIT, Tiptur	22/04/2021 to 28/04/2021	06	Online FDP

# List of Students carried out internship in different Companies

Sl No	USN	Student Name	Company Name	No. of Days	Date	
1	1KI17ME001	A.P.NISHANTH	Ashok Leyland Ltd. , Chennai	30	11/10/2020	12/16/2020
2	1KI17ME002	ARJUN L	Apex Global tech solutions, Tumkur	30	8/1/2020	9/1/2020
3	1KI17ME003	Chandan Narayan Bongale	Verzeo edutech , Bengaluru	45	9/15/2020	11/11/2020
4	1KI17ME004	Chethana C A	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
5	1KI17ME005	Dayananda sagar K R	Hindustan Aeronautical Limited (HAL), Bangalore	20	3/14/2021	4/5/2021
6	1KI17ME007	Dinesh S P	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
7	1KI17ME008	GANESH R S	Apex Global Tech Solutions, Tumkur	31	8/1/2020	9/1/2020
8	1KI17ME010	KIRAN SP	Meghana Coconut Industry, Tiptur	30	3/15/2021	4/15/2021
9	1KI17ME011	Lakshmi Sagar N R	VTU NASD, Dandeli	30	8/4/2020	9/4/2021
10	1KI17ME014	Mallikarjun	Apex Global Tech Solutions, Tumkur	30	10/5/2020	11/5/2020
11	1KI17ME016	Manoj K V	T D Power system , Dabaspete	26	1/8/2020	2/4/2020
12	1KI17ME017	MANOJ KUMAR M P	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
13	1KI17ME018	Manoj N	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
14	1KI17ME019	ManojRaj J R	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
15	1KI17ME020	Pavan S R	Kailash Roofing solution PVT.LTD	20	9/1/2020	9/20/2020
16	1KI17ME021	Prajwal N	TDPS(Thermo develop power system) Dobespet	26	1/8/2020	2/4/2020
17	1KI17ME022	Rakesh Gowda M	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
18	1KI17ME024	Ranganathaswamy B C	Meghana Coconut Industry, Tiptur	30	3/15/2021	4/15/2021
19	1KI17ME026	Sadhan K V	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
20	1KI17ME027	SAMPATH GM	Apex Global Tech Solutions, Tumkur	30	8/1/2021	9/1/2021



## List of Students carried out internship in different Companies

Sl No	USN	Student Name	Company Name	No. of Days	Date	
21	1KI17ME028	Sanjay CD	Hindustan Aeronautics limited in ARDC Division	20	3/14/2021	8/5/2021
22	1KI17ME029	Sanjay Gowda B S	Meghana Coconut Industry, Tiptur	30	3/15/2021	4/15/2021
23	1KI17ME030	SANJAY S	BCN Industry,peenya 2nd stage, Bangalore	30	3/3/2021	4/10/2021
24	1KI17ME032	SHASHIDHAR U R	Apex Global Tech Solutions, Tumkur	30	11/10/2020	12/10/2020
25	1KI17ME033	Shivakumar EC	Hindustan Aeronautics Limited, Banglore	20	3/15/2021	4/5/2021
26	1KI17ME034	Shiva Kumar s	Apex global tech solutions. Tumkur	30	10/5/2020	11/5/2020
27	1KI17ME035	Suhas T P	Apex Global Tech, Tumkur	30	10/5/2020	11/6/2020
28	1KI17ME039	Swasthik MS	Apex Global Tech Solutions, Tumakuru	30	8/1/2020	9/1/2020
29	1KI17ME040	Thejus Gowda U	Apex global tech solutions, Tumkur	30	8/1/2020	9/1/2020
30	1KI17ME041	Vandana JS	VTU NASD.Dandeli	30	8/10/2020	10/10/2020
31	1KI17ME042	Vinay S	Apex Global Tech solutions, Tumakuru	30	8/1/2020	9/1/2020
32	1KI17ME043	Vinod T A	Meghana Coconut Industry, Tiptur	30	3/15/2021	4/15/2021
33	1KI17ME044	Yashas K P	Meghana Coconut Industry, Tiptur	30	3/15/2021	4/15/2021
34	1KI17ME045	Yashwanth M	Apex Global Tech Solutions	30	8/1/2020	9/1/2020
35	1KI18ME421	Rajath kumar	Apex global tech solutions	30	8/1/2020	9/1/2020
36	1KI14ME013	Bharath h y	Bilva technologies Pvt Ltd,, Nidavanda,	30	3/15/2021	4/15/2021
37	1KI15ME006	AJITH REDDY	Kalpataru Institute of Technology ,Tiptur	30	7/15/2019	8/15/2019
38	1KI15ME007	Akshaykumar C Ari	Kalpataru Institute of Technology ,Tiptur	10	4/2/2021	4/11/2021
39	1KI15ME008	Anil kumar A	Apex Global Tech Solutions, Tumkur	30	7/18/2021	7/18/2021
40	1KI15ME066	Ranganatha k	Apex Global Tech Solutions, Tumkur	30	6/3/2021	7/3/2021
41	1KI15ME067	Rohith Gk	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
42	1KI16ME019	Likith Raj	Birla GRASIM,HARIHAR	30	7/9/2019	8/8/2019
43	1KI16ME038	Pavankumar TL	"Kailash Roofing Solutions PVT.LTD" TUMKUR	30	9/2/2020	10/2/2020
44	1KI16ME039	Pavithra H E	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020
45	1KI16ME056	Saqlain Riyaz Shariff	Apex Global Tech Solutions, Tumkur	30	8/1/2020	9/1/2020

## List of Students carried out internship in different Companies

Sl No	USN	Student Name	Company Name	No. of Days	Date	
46	1KI16ME421	Naveen Kumar C M	NTTF , Bangalore	30	7/13/2019	8/14/2019
47	1KI16ME432	Suhas Yadav T K	Kalpataru Institute of Technology ,Tiptur	30	7/1/2019	7/31/2019
48	1KI17ME404	Anirudh DC	Kalpataru Institute of Technology ,Tiptur	30	7/15/2019	8/15/2021
49	1KI17ME409	Harshavardhana B R	Sujaya industries, Mysore	30	12/10/2020	1/10/2021
50	1KI17ME416	Mohan Raj	Kalpataru Institute of Technology ,Tiptur	20	6/10/2019	6/30/2019
51	1KI17ME417	Naveen kumar CN	Technofly solutions, Banglore	30	3/15/2021	4/15/2021
52	1KI18ME401	Abhishek cv	Shield technologies Bangalore	30	1/3/2021	2/3/2021
53	1KI18ME403	ANIL KUMAR K	Plot No.257, Sompura Industrial Area 1st Stage, Bengaluru Rural Dist, Nidavanda,	30	3/15/2021	3/15/2021
54	1KI18ME404	Darshan H D	ABnB Innovation Bangalore	30	5/5/2021	6/5/2021
55	1KI18ME405	Dushyanth K B	Shield Technologies, Bangalore	30	1/3/2021	2/3/2021
56	1KI18ME410	Hemanth T	Microsoft virtual	30	9/1/2020	10/1/2020
57	1KI18ME416	Nikhil H T	Shield technologies Bangalore	30	1/3/2021	2/3/2021
58	1KI18ME417	Nishanth kr	ABnB Innovation Bangalore	30	6/5/2021	7/6/2021
59	1KI18ME419	Pavan T M	Apex global tech solutions, Tumkur	17	12/16/2020	1/13/2021
60	1KI18ME422	Ramesh C N	Apex global tech solutions, Tumkur	31	8/1/2020	9/1/2020
61	1KI18ME423	Srinidhi TP	Apex global tech solutions, Tumkur	30	8/1/2020	9/1/2020
62	1KI18ME424	Vinayaka rs	Apex global tech solutions, Tumkur	30	8/1/2020	9/1/2020
63	1KI18ME425	Virupaksha B L	Apex global tech solutions, Tumkur	30	8/1/2020	9/1/2020

# Research and Development

## Details of Grants received

Name of the project	Sponsoring agency	Amount Sanctioned (Rs)	Amount Released (Rs.)	Outcome of the project
To Provide Infrastructure Research work on Tribological studies	VGST (Govt. of Karnataka)	20,00,000	20,00,000	Infrastructure Research work on Tribological studies



**Research & Development Centre,  
Department of Mechanical Engineering**



Principal investigator :  
**Dr. Chandrashekharaiyah T M**  
**Professor and R&D Head**

The world class research and development was established for in the field of tribological studies. This research and development will also benefit researchers and students who are interested in working on tribological studies.



**Pin on Disc Wear Testing Machine**

The Pin on Disc wear testing machine is a test instrument designed for accurate and repeatable tribological characterization of bulk materials, coatings and lubricants. Ducom wear testing machine is for real time measurement and analysis of friction and wear behaviour of materials in the form of Pin and disc specimens. Easily changeable holders allow users to quickly change the nature of tribological contact to something that is relevant to their application. Pin and disc specimens can be tested irrespective of its roughness and hardness. Experiments can be conducted in dry or lubricated condition.



## Research and Development



**Resistance Furnace**

The resistance furnace was purchased for R&D to prepare the specimens of different compositions aluminium and its alloys. The melting capacity is varying from 0.5 to 5kg. Working temperature is 1000oC can be maintained in the furnace. Silicon Carbide heating elements are used and K type thermocouple is used to record the temperature. Heating elements are mounted on two sides of the furnace. Chamber Shell is constructed out of MS angles and covered with MS Sheets. Temperature is controlled by PID Digital temperature programmable controller.



**Vickers Micro Hardness Tester**

This system can be used for hardness measurement through PC instead of eye piece. Direct measurement of hardness value on PC monitor using software is possible. Benefits includes an LED display for hardness, variable testing forces (10, 25, 50, 100, 200, 300, 500 and 1000grams load), 10X to 40X objectives, automatic and manual loading dwell and unloading alone with an auto-turret head to prevent damage to the indenter. Microhardness tester can save and export data to either a printer or a PC.



**Metallurgical Inverted Microscope**

Metallurgical microscopes are widely used to observe and analyze microstructure of different metals and alloys and composite materials after polishing and etching. These are also used to observe worn-out surface of the specimens after wear test to identify dominant wear mechanism. Typical Magnification range for optical metallurgical microscope is 50 to 1000X. However, higher magnifications are possible with specialized oil immersion lenses.



**High Precision Electronic Balance Scale**

The AT X244 model Electronic Machine Weighing is an useful with high and reliable accuracy for measuring and nonm different metals etals. This is essential weighing machine and 1 for weight lo weighing the specimens for ss

**SPECIFICATIONS:** Brand: Shimadzu Analytical Balance, Model: ATX224, Capacity: 220 g, Readability: 0.1 mg, Pan Size: Ø 91 mm Calibration: Internal

**Use for Laboratory**



**Single Disc Polishing Machine**

Research Scholars at

The following candidates have registered for Ph.D. in the Department of Mechanical Engineering, Research Centre, KIT, Tiptur.

Sl No.	Student Name	Status	Ph.D Guide Name
01	Mrs. SatyaPrema	Completed	<b>Dr. Chandrashekharaiiah T</b> KIT – Tiptur
02	Mr. Devappa	Completed	
03	Mr. Somashekhar Hiremath	Pursing	
04	Mr. Muralidhar. S	Pursing	
05	Mrs. Naveena Kumari M E	Pursing	<b>Dr. Kiran T S</b> KIT – Tiptur
06	Mr. Madhu P S	Pursing	
07	Mithun Kumar C N	Pursing	
08	Mr. Surendranatha G M	Pursing	

# Research and Development

## Details of Grants received

Name of the project	Sponsoring agency	Amount Sanctioned (Rs)	Amount Released (Rs.Lacs)	Outcome of the project
To strengthen the infrastructure to carryout research work on Energy Conversion Engineering laboratory	VGST (Govt. of Karnataka)	30,00,000	10,00,000	Infrastructure Research work for energy Lab



**Principal Investigator :**  
**Dr. Viswanatha B M**  
**HOD & Professor**

Centre's of Innovative Science & Engineering Education (CISEE) scheme the Department has upgrade the Energy Conversion Engineering laboratory by using VGST–grant. The world class separate laboratory was established for research and development in the field of energy conversion engineering . This laboratory will also benefit researchers and students who are interested in working on energy management. To prepare the students for successful career in the energy industry, energy regulation and management agencies and in the academic and R&D institutions.



## Research and Development



## Exhaust Emission Test Setup




## Solid Fuel Analysis of Setup



### Four stroke four cylinder petrol engine cut Section

## Sponsored by BMW Company

Sponsoring agency - BMW	Details	Lab	Year	Remarks
	Department have received the Twine Shared Turbo Jet BMW Engine from BMW company India	Energy Lab	2018-19	Technology transformation to the students and faculties

### BMW Twin-power Turbo Diesel Engine

## Student project sponsored by KSCST, Bangalore

Sl No	Name of the Guide	Name of Students	Project Title	Granted Amount (Rs.)
01	Mr. Aradhya S M	Swsthik M S	Aracanut Tree Climbing And Cutting Machine	6000/-
		Lakshmi Sagar N R		
		Vinay S		
		Vinod T A		
02	Mr. Mahanthesh G	Arjun L	Automatic Water Tank Cleaning Machine	5500/-
		Rakesh M		
		Hemanth Kumar B P		
		Dhanush S P		

## Details of Research Scholar in the Department

Sl. No.	Name	Center of Registration / University	Date of Registration	Guide Name	Research Topic
01	T S Siddalingaprasad Associate Prof, Mech	SIT Tumkur VTU Belagavi	October - 2012	Dr.H .S Shivashankar, SIT, Tumkur	Characterization and Property Evaluation of forged cutting tool for industrial application
02	Mallikarjuna. G. B Asst.Prof, Mech	JNNCE, Shivamogga VTU – Belagavi	December 2014	Dr. E Basavaraj JNNCE, Shivamogga	Metal Matrix Composite
03	Rohith Kumar H.V Asst.Prof, Mech	UBDT CE, Davangere VTU – Belagavi	January 2016	Dr. Irappa Sogalad UBDT CE, Davanagere	Polymer Matrix Composite
04	Eshwaraiah K S Associate Prof, Mech	NIMAMIT, Nitte VTU , Belagavi	February 2017	Dr. Shashikanth Kariyanka NIMAMIT, Nitte	Automation & Optimization of Multifunction of Power tiller
05	Naveen Kumari M.E Asst.Prof, Mech	KIT, Tiptur VTU , Belagavi	February 2017	Dr. Kiran T S KIT, Tiptur	Metal Matrix Composite



# Toppers List



Sahana M[1KI20ME015]  
1<sup>st</sup> sem



Sahana M[1KI20ME015]  
2<sup>nd</sup> sem



Sagar C [1KI19ME023]  
3<sup>rd</sup> sem



Harsha G N[1KI20ME403]  
4<sup>th</sup> sem



Darshan Palegar [1KI18ME011]  
5<sup>th</sup> sem



Srinivas H S [1KI19ME419]  
6<sup>th</sup> sem



Chethana C A [1KI17ME004]  
7<sup>th</sup> sem



Chethana C A [1KI17ME004]  
8<sup>th</sup> sem

# Seminar Organized



Online FDP AICTE – ISTE Refresher Program was organized by the Department based on **“Thermal Engineering Phase -1”**, 17th to 23rd February 2021



Online FDP AICTE – ISTE Refresher Program was organized by the Department based on **“Thermal Engineering Phase -2”**, 17th to 23rd March 2021



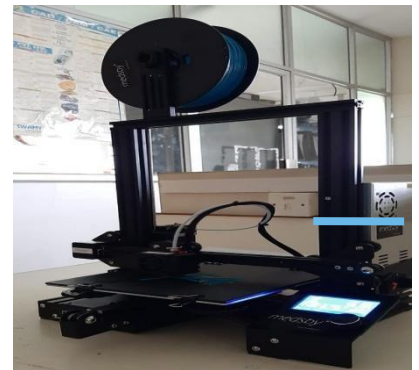
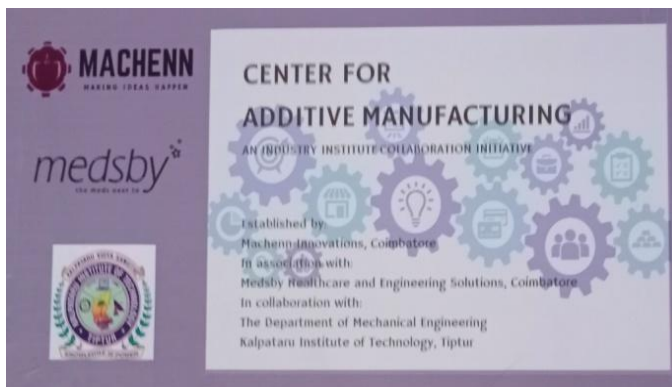
Online FDP AICTE – ISTE Refresher Program was organized by the Department based on **“Thermal Engineering Phase -3”**, 22<sup>nd</sup> to 27<sup>th</sup> April 2021





KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR  
FINAL YEAR B.E MECHANICAL ENGINEERING  
2020-21

## Centre for Additive Manufacturing



3D PRINTING MACHINE

The main objective of Centre for Additive Manufacturing is to establish collaboration between Academic Institutions and industry, by means of providing infra-structure, academic laboratory establishment, and consultancy work to institutions, product development, student-industry interaction, internships and placements.

Innovative learning processes are clearly of them. Indeed, as students, creating their own 3D printing projects learn many things, from project management to technical skills.

Moreover, these kinds of projects gives students a real hint of what his professional life could look like, giving them practical skills, which differ a lot from what conventional theoretical lessons can bring them. 3D printing can be used in many educational fields. For example a biomedical engineer can design a custom made prosthetics or convert CTDICOM models into real time 3D models helping surgeons and radiologists pre-plan or practice surgeries.



# Campus Recruitment



**TATA** CONSULTANCY SERVICES

Sl. No.	USN	Name
1	1KI17ME028	Sanjay C D



Sl. No.	USN	Name
1	1KI17ME044	Yashas K P
2	1KI16ME056	Saqlain Riyaz Shariff



**Cognizant**

Sl. No.	USN	Name
1	1KI17ME011	Lakshmi Sagar N R
2	1KI17ME010	Kiran S P
3	1KI17ME004	Chethana C A
4	1KI16ME056	Saqlain Riyaz Shariff
5	1KI17ME045	Yashwanth M

**Capgemini** engineering

Sl. No.	USN	Name
1	1KI17ME044	Yashas K P



Sl. No.	USN	Name
1	1KI18ME401	Abhishek C V



Sl. No.	USN	Name
1	1KI17ME011	Lakshmi Sagar N R
2	1KI17ME041	Vandana J S
3	1KI16ME432	Suhas Yadav T K
4	1KI18ME410	Hemanth T
5	1KI17ME007	Dinesh S P
6	1KI17ME023	Rakesh M

# Campus Recruitment

**SmartBrains**  
Engineers & Technologist Pvt. Ltd.

Sl. No.	USN	Name
1	1KI17ME004	Chethana C A
2	1KI17ME044	Yashas K P
3	1KI17ME011	Lakshmi Sagar N R



Sl. No.	USN	Name
1	1KI18ME417	Nishanth K R
2	1KI18ME404	Darshan H D
3	1KI17ME028	Sanjay C D
4	1KI18ME414	Manu G P
5	1KI17ME035	Suhas T P



Sl. No.	USN	Name
1	1KI18ME405	Dushyanth K B
2	1KI17ME045	Yashwanth M
3	1KI17ME028	Sanjay C D
4	1KI17ME004	Chethana C A
5	1KI17ME003	Chandan Narayan Bongale



Sl. No.	USN	Name
1	1KI17ME044	Yashas K P



Sl. No.	USN	Name
1	1KI18ME424	Vinayaka R S
2	1KI17ME005	Dayananda Sagar K R
3	1KI17ME003	Chandan Narayan Bongale
4	1KI17ME039	Swasthik M S
5	1KI16ME056	Saqlain Riyaz Shariff

# Campus Recruitment



Sl. No.	USN	Name
1	1KI17ME011	Lakshmi Sagar N R



Sl. No.	USN	Name
1	1KI18ME401	Abhishek C V
2	1KI17ME004	Chethana C A
3	1KI17ME003	Chandan Narayan Bongale
4	1KI17ME039	Swasthik M S
5	1KI17ME010	Kiran S P



Sl. No.	USN	Name
1	1KI18ME419	Pavan T M
2	1KI18ME405	Dushyanth K B
3	1KI17ME026	Sadhan K V



Sl. No.	USN	Name
1	1KI17ME026	Sadhan K V
2	1KI17ME024	Raganath Swamy
3	1KI17ME017	Manoj Kumar M P



## Teaching Faculties

Sl. No.	Faculty Names	Qualification	Designation
01	Dr. Viswanatha B.M.	M.Tech., Ph.D	Professor & HOD
02	Dr. Chandrashekharaiiah T M	M.Tech., PhD.	Professor
03	Dr. Kiran T S	M.Tech., Ph.D	Professor
04	Mr. Siddalingaprasad T S	M.E., (Ph. D)	Associate Professor
05	Mr. Eshwaraiah K S	M.Tech., (Ph. D)	Associate Professor
06	Mr. Aradhya S M	M.Tech	Associate Professor
07	Mr. Mallikarjuna G B	M.Tech., (Ph. D)	Assistant Professor
08	Mr. Deepak Kumar N Y	M.Tech.	Assistant Professor
09	Mrs. Mamata Sarangamath	M.Tech.	Assistant Professor
10	Mr. Rohithkumar H V	M.Tech., (Ph. D)	Assistant Professor
11	Mr. Dileep H B	M.Tech.	Assistant Professor
12	Mr. Mahanthesh G	M.Tech.	Assistant Professor
13	Mr. Sandeep K	M.Tech.	Assistant Professor
14	Mr. Harikesha C R	M.Tech.	Assistant Professor
15	Mrs. Naveen Kumari M.E	M.Tech., (Ph. D)	Assistant Professor
16	Mr. Brijesh C	M.Tech.	Assistant Professor
17	Mr. Ajay C K	M.Tech.	Assistant Professor
18	Mr. Anil K	M.Tech.	Assistant Professor

## Non-teaching Faculties

Sl. No.	Names	Designation
01	Siddagangappa	Foreman
02	Rupa M V	Instructor
03	Lokesh M N	Instructor
04	Puttaswamy T	Mechanic
05	Vishwanatha T N	Mechanic
06	Rajashekar M N	Mechanic
07	Chethan Kumar N R	Mechanic
08	Lokanath T G	Mechanic
09	Rajashekar H V	Attender
10	Kumaraiah C R	Sweeper

## From Editorial desk

We, at the editors' desk, take immense pleasure in presenting this News Letter of our Mechanical Department. Department of Mechanical Engineering has successfully completed 29 years of dedicated service in the field of technical education. Significant progress has taken place in our Mechanical Department during the period 2020-21 and all those developments have been sincerely highlighted in this edition. Achievements in the field of academics and Non-academics by the students as well as the faculty members are very encouraging and have been given due importance in this edition.

**Editorial committee:** *Dept of Mechanical Engineering*

**Dr. Vishwanath B M,** Professor & HOD

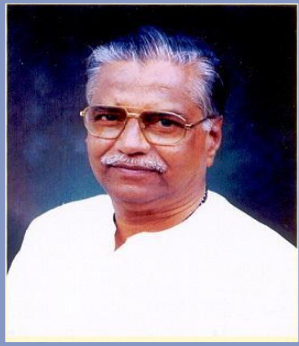
**Dr. Kiran T S,** Professor

**Mr. Sandeep K,** Assistant Professor



# Management of Kalpataru Vidya Samsthe®

## President



**Sri P. K. Thipperudrappa**  
President  
Kalpataru Vidya Samsthe

## Treasurer

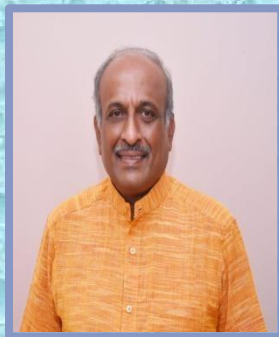


**Sri. T S Shivaprasad**  
Treasurer  
Kalpataru Vidya Samsthe

## Vice Presidents



**Sri. T S Basavaraju**  
Vice President



**Sri. Bagepalli Nataraj**  
Vice President



**Sri. G P Deepak**  
Vice President



**Sri. B S Umesh**  
Vice President

## Secretaries



**Sri. M R Sangamesh**  
Secretary



**Sri. Sudhakar H G**  
Secretary



**Sri. G S Umashankar**  
secretary



**Sri. T U Jagadeeshamurthy**  
Secretary