

KALPATARU VIDYA SAMSTE® TIPTUR

# KALPATARU INSTITUTE OF TECHNOLOGY

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

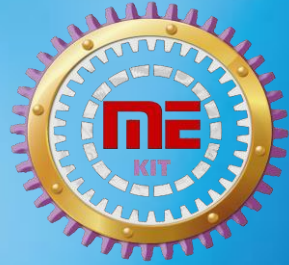
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Estd-1986



## DEPARTMENT OF MECHANICAL ENGINEERING

Volume -1

*The Newsletter*

2015-16



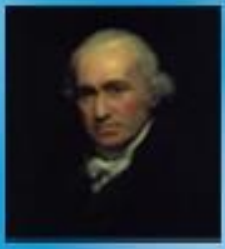
**Royals  
Reflex**



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**James Watt**

born:  
Jan 19, 1736  
died:  
Aug 25, 1819

→ **“FATHER OF  
MECHANICAL  
ENGINEERING”**

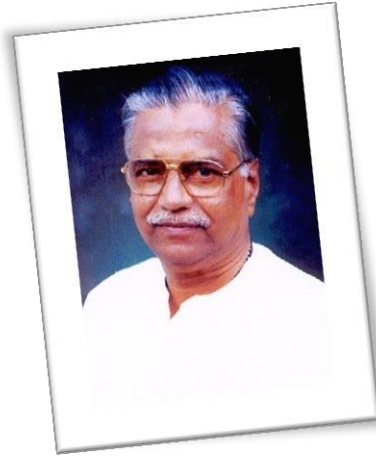
**“A lie can  
run around  
the world  
before the  
truth can  
get it's  
boots on”**

**-JAMES WATT**

## 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, KIT



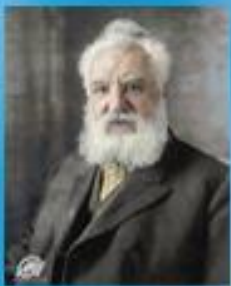
## From Treasurer's desk

*On the silver jubilee year of Mechanical department, I am overwhelmed to learn that the department is bringing out its debut news letter to celebrate the same. I congratulate the Head of the Department Dr. Viswanath B M and his young team who have initiated this unique way of presenting the various activities conducted by the department in academic year 2015-16. 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, KIT







**Alexander  
Graham Bell**

born:  
March 3, 1847  
died:  
Aug 2, 1922

→ **“ FATHER  
OF RADIO”**

**“Before  
anything  
else  
preparation  
is the key  
to success”**

-Graham bell

## 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 successfully completed 24 years of precious service in the field of academics.*



**Dr. K N Bhanuprakash**  
Principal, KIT

## From HOD's desk

*I am utterly glad to welcome maiden issue of Mechanical Department newsletter for the academic year 2015-16. 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



## CHARLES BABBAGE

born:  
26 Dec 1791  
Died:  
18 Oct 1871

→ “FATHER OF  
COMPUTER”

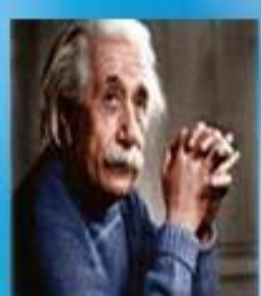
“Errors  
using in  
adequate  
data are  
much lesser  
than those  
using no  
data at all”

- Charles Babbage

## About our 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. B M Viswanatha, Dr. T M Chandrashekaraiah and Dr. T S Kiran with Ph.D degrees. Mr T S Siddalingaprasad, Mr. Basavaraj Ganigar, Mr. Mallikarjun G B & Mr. Rohithkumar H V are pursuing their Ph.D degree program in different universities. The Department has a Research & Development center recognized by VTU, Belagavi and Tumkur University. It has managed to receive Rs. 20 lakh grant from VGST, Govt. of Karnataka. Dr T M Chandrashekharaiiah is guiding several candidates for Ph.D programme under VTU. The department organizes symposiums, workshops and seminars under Mechanical Engineering Association every year.*



## ALBERT EINSTEIN

born:  
14 March 1879  
Died:  
18 April 1955

→ “THEORY  
OF  
RELATIVITY  
( $E=MC^2$ )”  
→ “PHOTO  
ELECTRIC  
EFFECT”

“A person  
who never  
made a  
mistake  
never tried  
anything”

-Albert Einstein



## Vision and mission

### **Vision:**

*The Department of Mechanical Engineering - being one of the best undergraduate programs, based on the quality and balance between Institution & Industries, it has become a department of choice for prospective students, parents, faculty, staff, corporate donors and corporate employers nationwide.*

### **Mission:**

*To produce top-notch graduates with a broad-based foundation in fundamental mechanical engineering principles together with in-depth disciplinary knowledge which is essential to succeed in a career in Mechanical Engineering or related fields including a wide variety of advanced technological and management careers.*

## Staff's achievements

- ❑ *Mr. Viswanatha B M, Associate Professor, Department of Mechanical Engineering has been conferred Ph.D Degree from VTU, Belagavi on 21<sup>th</sup> Jan 2017 for his theses 'Development and Characterization of Metal Matrix Hybrid Composite Material for automobile disc brake system'. He did his research work under the supervision of Dr. M. Prasanna Kumar, BIET, Davanagere.*
- ❑ *Mr. Kiran T. S, Associate Professor, Department of Mechanical Engineering has been conferred Ph.D Degree from VTU, Belagavi on 27<sup>th</sup> May 2016 for his theses 'Fabrication and Characterization of Metal Matrix Hybrid Composite Material'. He did his research work under the supervision of Dr. M. Prasanna Kumar, BIET, Davanagere*
- ❑ *Dr. Chandrashekharaiiah T. M., Professor, Department of Mechanical Engineering has received grant from VGST (Govt. of Karnataka) of Rs. 20 Lakhs to Provide Infrastructure in Research work on Tribological studies.*





## Write brothers

**Born:**  
Aug 19, 1871  
**Died:**  
Jan 30, 1948

➡ **"FATHERS  
OF  
AEROPLANE"**

**"THE  
AIRPLANE  
STAYS UP  
BECAUSE  
IT  
DOESN'T  
HAVE  
TIME TO  
FALL"**

- Wilbur wright

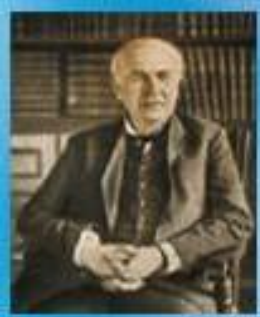
## Seminars organised/ conducted

- ❖ On 18-02-2016 a seminar was organised in our college which was based on "Energy efficiency and economic performance in industries" by an eminent personality "Dr. N Nagesh (UBDTCE, Davanagere)".
- ❖ On 18-02-2016 a seminal was conducted in our college which was based on "Utilization of waste water management by an other eminent personality "Dr. N T Manjunath (UBDTCE, Davavnagere)".
- ❖ On 01-04-2016 a seminar was conducted in our college which was based on "Role of Mechanical Engineers in constructional fields" by an eminent personality "Mr. Suresh Bharein" (project engineer, Saudi Arabia)".
- ❖ On 02-04-2016 a seminar was conducted in our college which was based on "Introduction to design with overview of industrial requirement" by eminent personalities "Mr. Prahlad Reddy (CEO, Global Quest, Bengaluru), and by two aluminous Mr. Nandeesh V A and Mr. Vishwa Hiremath (V-Medhar Technologies, Bengaluru)

## Students participation

- ❑ Gopal Krishna Kulkarni has participated in the National Level Technical Festival INVICTUS-2016 on 21<sup>st</sup> & 22<sup>nd</sup> March 2016, Vachana Pitamaha Dr. P.G. Halakatti College of Engineering & Technology, Vijayapur and secured 1<sup>st</sup> prize.
- ❑ Mahesh S Rashinkar has participated in the National Level Technical Festival INVICTUS-2016 on 21<sup>st</sup> & 22<sup>nd</sup> March 2016, Vachana Pitamaha Dr. P G Halakatti College of Engineering & Technology, Vijayapur and secured 1<sup>st</sup> prize.

## Research and Development



**THOMAS  
ALVA  
EDISEN**

**BORN:**  
Feb 11, 1847  
**DIED:**  
Oct 18, 1931

➡ **“ HE  
INVENTED  
ELECTRIC  
BULB”**

**“Genius is  
1%  
inspiration  
and 99%  
perspiration”**

**-Thomas Edison**



***Dr. Chandrashekharaiiah T M***  
***Professor & Head, R & D Centre,***  
***Department of Mechanical Engineering, K.I.T, Tiptur***



***R&D centre***



***Grants from VGST***

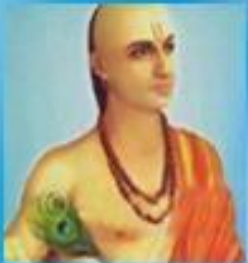


***Pin on Disc Wear Testing Machine***



***Resistance Furnace***





**ARYABHATA**

**Born:**  
**476 AD**  
**Died:**  
**550 AD**

➡ **“ HE  
INVENTED  
THE  
‘ZERO’ ”**

**“ The  
universal  
medicine-  
\*For soul is  
supreme  
reason and  
absolute  
justice.  
\*For mind  
mathematical  
and practical  
truth.  
\*For body  
quit essence”**  
**-ARYABATA**

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

01	Mr. R Manjunatha	Studies on Grain refinement and Modification on Machinability of Al-Si alloys.
02	Mrs. SatyaPrema	Effect of structural modification on the surface roughness and machinability of cast Al-Si alloys and comparing with a statistical tool using ANOVA.
03	Mr. Devappa	Studies on the addition of Ti, Cu,B,Mg and Sr in the form of master alloys on the microstructure, mechanical properties with fracture behavior analysis of neareutectic and eutectic Al-Si alloys.
04	Mr. Somashekhar Hiremath	Studies on sliding wear behaviour of grain refined and modified LM-25 and LM-6 alloys and mapping of wear mechanisms.

➡ **Details of Grants received: R & D track record  
(mechanical department)**

Name of the project	Sponsoring agency	Amount Sanctioned (Rs)	Amount Released (Rs.Lacs)	Duration (Start date- End date)	Outcome of the project
To Provide Infrastructure Research work on Tribological studies	VGST (Govt. of Karnataka)	20,00,000	10,00,000	Jan. 2015	Infrastructure Research work on Tribological studies



**SIR ISAAC  
NEWTON**

**Born:**  
25 Dec 1642  
**Died:**  
20 March 1726

➡ **“ HE  
PROPOSED  
THE LAW OF  
GRAVITATION”**

**“LIVE YOUR  
LIFE AS AN  
EXCLAMATION  
RATHER THAN  
EXPLANATION”**

**- ISAAC NEWTON**

## Research in progress

Sl N o.	Name	Center of Registration / University	Date of Registration	Guide Name	Research Topic
01	T S Siddalingaprasad Asst.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	Basavaraj Ganiger, Asst.Prof, Mech	SSU -Tumkur	August 2012	Dr T. B Prasad, SSIT, Tumkur	Studies on the effect of addition of phosphorous on Micro structure and sliding wear behavior of some commercially available hypereutectic Al-Si alloy at elevated temperature
03	Mallikarjuna. G. B Asst.Prof, Mech	JNNCE, Shivamogga VTU - Belagavi	December 2014	Dr. E Basavaraj JNNCE, Shivamogga	Metal Matrix Composite
04	Rohith Kumar H.V Asst.Prof, Mech	UBDT Davangere VTU - Belagavi	December 2015	Dr. Erappa Sogalad BIET - Davanagere	Polymer Matrix Composite

## Industrial visits

Sl No.	Name of the Event	Date	Details	Participants
1	Industry- Institute Interaction Visit	11-09- 2015	Sharavathi Hydro power Project, Shivamogga	96 Students + 4 Faculties (5 <sup>th</sup> sem)
2	Industry- Institute Interaction Visit	23-04- 2016	Kaiga Atomic power Plant, Karwar	111 Students + 15 Faculties (3 <sup>rd</sup> sem)



## Research publications



**JOHN LOGIE  
BAIRD**

**Born:**  
**14 Aug 1888**  
**Died:**  
**14 June 1946**

➡ **" HE  
INVENTED  
TELEVISION"**

**"CATHODE  
RAY TUBES  
ARE THE  
MOST  
IMAPORTANT  
ITEMS IN  
THE  
TELIVISION"**

**- J L BAIRD**

- ❑ *B.M. Viswanatha, M. Prasanna Kumar, S. Basavarajappa, T.S. Kiran, A study on metal matrix composites for disc brake system. manager's Journal on Material Science, Vol. 4, No.1, April-June-2016.*
- ❑ *B.M. Viswanatha, M. Prasanna Kumar, S. Basavarajappa, T.S. Kiran, Study the Fabrication, Microstructure and Mechanical Properties of As-CastHybrid Composites, International Journal of Mechanical Engineering and Automation, Ethan Publishing Company, USA, E20160601-1.*
- ❑ *B. M. Ganiger, T. M. Chandrashekharaiiah\*, T. B. Prasad "The Effect of Modification of Primary Silicon on the Microstructure, Mechanical and Sliding Wear Behavior of Commercial LM-29 Cast Alloy" American Journal of Materials Science 2015, 5(3C): 1-6 DOI: 10.5923/c.materials.201502.01*
- ❑ *Kiran T.S., Prasanna kumar M, Basavarajappa, S., Viswanatha B.M., Effect of heat treatment on tribological behavior of zinc aluminum alloy reinforced with graphite and SiC particles for journal bearing. Industrial Lubrication and Tribology, 67/4 (2015) 292-300.*
- ❑ *B.M. Viswanatha, M. Prasanna Kumar, S. Basavarajappa, T.S. Kiran, Study of the microstructure, hardness and tribological behavior of hypoeutectic Al-7Si hybrid composites, Industrial Lubrication and Tribology, 68(2):233-241, March 2016.*
- ❑ *Chandrashekharaiiah T M, sathya prema, shreeshaila, "analysis of machine parameter and surface finish of Al-Si Alloys with grain finers/ or modifier, Material Science forum Vols . 830-831 2015 pp 91-94.*
- ❑ *Chandrashekharaiiah T M, Devappa, " studies on the effect of minor addition of Sr and Mg on the microstructure and mechanical properties of A413 Alloy, IJERT, vol 4 4 issue 06 June 2015 pp-10-12.*
- ❑ *Basavaraj Mallappa Ganiger, Chandrashekharaiiah Tumbigeri Mata H R, Manohara T B Prasad , (2015), "Studies on the effect of minor addition of phosphorous on microstructure, mechanical and wear behavior of LM-28 alloy", Industrial Lubrication and Tribology, Vol. 67 Iss 4 pp. 344 - 348, DoI 10.1108/ILT-08-2014-0078.*





**RUDOLF  
DIESEL**

**BORN:**  
**18 Mar 1858**  
**DIED:**  
**29 Sep 1913**

➔ **“HE  
INVENTED  
DIESEL  
ENGINE”**

**“THE  
AUTOMOBILE  
ENGINE WIL  
COME, AND  
THEN I WILL  
CONCIDER  
MY LIFE’S  
WORK  
COMPLETE”**

**RUDOLF DIESEL**

## 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. Shivayogi M J	B E	Associate Professor
05	Mr. Siddalingaprasad T S	M.E., (Ph. D)	Associate Professor
06	Mr. Somashekar Hiremath	M.Tech.,	Associate Professor
07	Mr. Aradhya S M	M.Tech	Associate Professor
08	Mr. Basavaraj Ganiger	M.Tech. , (Ph. D)	Associate Professor
09	Mr. Parameshwaraiah B	M.Tech.	Assistant Professor
10	Mr. Mallikarjuna G B	M.Tech.	Assistant Professor
11	Mr. Deepak Kumar N Y	M.Tech.	Assistant Professor
12	Ms. Mamata Sarangamath	M.Tech.	Assistant Professor
13	Mr. Gireesh C S	M.Tech.	Assistant Professor
14	Mr. Rohithkumar H V	M.Tech.	Assistant Professor
15	Mr. Dileep H B	M.Tech.	Assistant Professor
16	Mr. Mahanthesh G	M.Tech.	Assistant Professor
17	Mr. Nataraj K.H.	M.Tech.	Assistant Professor
18	Mr. Rajesh B.S	M.Tech.	Assistant Professor
19	Mr. Sandeep K	M.Tech.	Assistant Professor
20	Mr. Kiran M C	M.Tech.	Assistant Professor
21	Mr. Manu H R	M.Tech.	Assistant Professor
22	Mr. Darshan G C	M.Tech.	Assistant Professor
23	Mr. Narendra Kumar S C	M.Tech.	Assistant Professor
24	Mr. Harikesha C R	M.Tech.	Assistant Professor
25	Mr. Madhu P S	M.Tech.	Assistant Professor
26	Mr. Manjunath C B	M.Tech.	Assistant Professor

Sl. No.	Names	Designation
01	Mr. Siddagangappa N	Foreman
02	Mr. Nataraj N R	Instructor
03	Smt. Indrani T S	SDC
04	Mr. Lohith K N	Asst. Instructor
05	Mr. Sunil T S	Asst. Instructor
06	Mr. Puttaswamy T	Mechanic
07	Mr. Manjunath S	Mechanic
08	Mr. Vishwanatha T N	Mechanic
09	Mr. Rajashekar M N	Mechanic
10	Mr. Chethankumar N R	Mechanic
11	Mr. Lokanath T G	Mechanic
12	Mr. Ranganaswamy K M	Mechanic
13	Mr. Rajashekar H V	Helper



## NIKOLAUS AUGUST OTTO

Born:  
14 June 1832  
Died:  
26 Jan 1891

➡ “HE  
INVENTED  
THE  
PETROL  
ENGINE”



## Toppers List



*Shankar S T*  
*1<sup>st</sup> sem.*



*Jagadish K*  
*2<sup>nd</sup> sem*



*SunithKumar Sharma*  
*3<sup>rd</sup> sem*



*Sushamitha H R*  
*4<sup>th</sup> sem*



*Harish C Paravinaikar*  
*5<sup>th</sup> sem*



*Raghu T*  
*6<sup>th</sup> sem*



*Vinay J V*  
*7<sup>th</sup> sem*



*Chethan C*  
*8<sup>th</sup> sem*





**GOTTLIEB  
DAIMLER**

**Born:**  
**17 Mar 1834**  
**Died:**  
**6 Mar 1900**

➡ **“ HE  
INVENTED  
THE FIRST  
INTERNAL  
COMBUSTION  
ENGINE”**

**“THE  
BEST OR  
NOTHING  
AT ALL”  
-DAIMLER**



# Gallery



*Industry Visit Organised by Mr. Somashekar Hiremath for VI sem students to Sharavathi Hydro power Project, Shimoga on 11<sup>th</sup> September 2015*



*Industry Visit Organised by Mr. Manjunath C B for IV sem students to Kaiga Atomic power Plant, Karwar on 23<sup>rd</sup> April 2016*





## KARL BENZ

**Born:**  
25 Nov 1844  
**Died:**  
4 Apr 1929

➔ **“ HE  
INVENTED  
THE FIRST  
MOTOR  
CAR”**

**I DO NOT  
KNOW THE  
WORD QUIT  
EITHER I  
NEVER DID  
OR I HAVE  
ABOLISHED  
IT”**

**-KARL BENZ**



***Mechanical Engineer Association (MEA)  
Inauguration function on 18<sup>th</sup> February  
2016***



***Management Felicitation to Mr.  
Kiran T S on Completion of PhD***



***Technical Seminar on ‘Utilization of  
Waste Water Management’ by Dr. N  
T Manjunath on 18<sup>th</sup> February 2016***



***Technical Seminar on ‘Energy  
Efficiency and Economic Performance  
in Industries’ by Dr. N Nagesh on  
18<sup>th</sup> February 2016***



***Technical Seminar on “Role of  
Mechanical Engineers in Construction  
Field” by Mr. Sujesh Bharein on 1<sup>st</sup>  
April 2016***



***Technical Seminar on “Introduction to  
Design with Overview of Industrial  
Requirements” by Mr. Prahlad Reddy  
on 2<sup>nd</sup> April 2016***



# Project Exhibition

**MARTIN  
COOPER**

**Born:  
26 dec 1928**

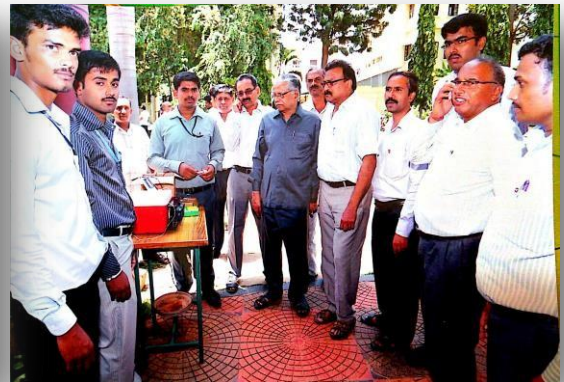
➡ **“ HE  
INVENTED  
THE  
MOBILE  
PHONE ”**

**“THE BEST  
WAY TO GET  
PEOPLES TO  
THINK  
OUTSIDE  
THE BOX IS  
NOT CREATE  
THE BOX IN  
THE FIRST  
PLACE”**

**- Martin Cooper**



*Management addressing the media*



*Solar based Projects*



*Cooling System*



*Strain gauge based project*





**Joseph  
Frederick  
Engelberger**

**Born:**  
July 26, 1925  
**Died:**  
Dec 1, 2015

➔ **"FATHER  
OF  
ROBOTICS"**

## Sports corner



**Vijeth Lakshman shetty**

*On 29-5-2016 one gold one silver medal and one bronze medal in gymnastics at VTU interzone, Ramnagar*

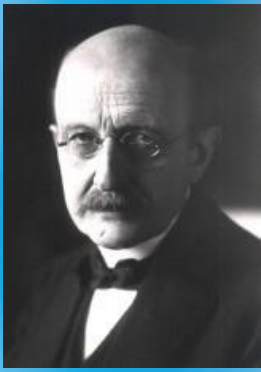


*On 26<sup>th</sup> march 2016 our college boys participated in VTU interzone kabaddi competition and secured 2<sup>nd</sup> place which consists our mechanical boys also they are, Ankush M, Chethan, Shridhar, Bharath, Rakesh.*



*On 24 april 2016 our college boys participated in VTU interzone kabaddi competition and secured 2<sup>nd</sup> place which consists our mechanical boys also they are, Spandan K M, Bharath Nadig H V, Abhishek K G, Swamy S P, Ranjit, Sharath, Dhanush, Vijeth.*





**MAX PLANCK**

Born:  
23 Apr 1858  
Died:  
4 Oct 1947

➡ **“ THE  
FATHER OF  
BLACK BODY  
RADIATIONS”**

**“An  
experiment is  
a question  
which poses  
to nature, and  
a  
measurement  
is the  
recording of  
natures  
answer”**

**-Max Plank**



## *Farewell*



**KALPATARU INSTITUTE OF TECHNOLOGY . TIPTUR**  
**FINAL YEAR B.E MECHANICAL ENGG**  
**'A' SECTION 2015-16**



**KALPATARU INSTITUTE OF TECHNOLOGY . TIPTUR**  
**FINAL YEAR B.E MECHANICAL ENGG**  
**'B' SECTION 2015-16**





**Dr. APJ ABDUL KALAM**

**Born:**  
**15 Oct 1931**  
**Died:**  
**27 July 2015**

➡ **“ HE  
WAS THE  
MISSILE MAN  
OF INDIA”**

**“DREAMS IS  
NOT WHAT  
YOU SEE IN  
SLEEP..  
IS THE THING  
WHICH  
DOESN'T LET  
YOU SLEEP”**

**-APJ KALAM**



# Campus Recruitment

**TATA TATA CONSULTANCY SERVICES**



**Chethan c**  
**( M E )**



**Bharatha T S**  
**( M E )**



**Gangadhar K**  
**( M E )**



**Karthik C C**  
**( M E )**



**Raghu S**  
**( M E )**



**Rakesh G S**  
**( M E )**



**Shivashankar  
policepatel**  
**( M E )**

## From editorial's 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 24 years of dedicated service in the field of technical education. Significant progress has taken place in our Mechanical Department during the period 2015-16 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:

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

**Mr. Shivayogi M J** Asst. Professor

**Dr. Kiran T S** Professor

**Mr. Sandeep K** Asst. Professor

**Mr. Rohithkumar H V** Asst. Professor

**Mr. Mahanthesh G** Asst. Professor

**Mr. Shashidhar C M** 8th sem (ME)

# *Kalpataru Vidya Samsthe*®



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



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

## *Vice Presidents*



*Sri. T M Chandrashekhara*  
*Vice President*



*Sri. S S Natraj*  
*Vice President*



*Sri. G K Prabhu*  
*Vice President*

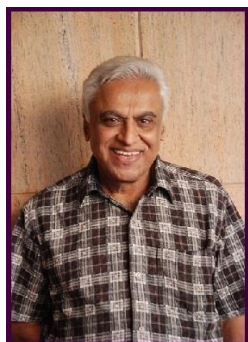


*Sri. A M Chandrashekharaiah*  
*Vice President*

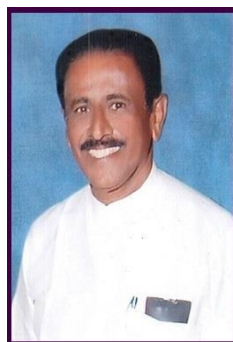
## *Secretaries*



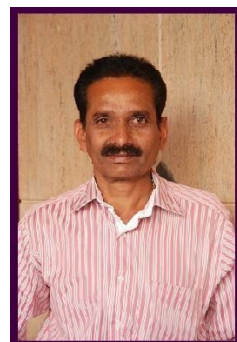
*Prof. Rajakumar*  
*Secretary*



*Sri. B R Vishwanath*  
*Secretary*



*Sri. K P rudramuniswamy*  
*secretary*



*Sri. T U Jagadeeshamurthy*  
*Secretary*