



RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BALLARI

**YANTRIKA**

DEPARTMENT OF MECHANICAL ENGINEERING

&amp;

DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING

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**From Editorial Desk**

As an editorial team we are extremely happy to place before you the department news letter highlighting the activities of the past semester and the achievements of faculty and students. As informative document it is, we are sure you relish going through the newsletter. The performance of our final year students in recently declared university exams is commendable. We congratulate all students and faculty for this achievement.

Education is a continuous and creative process. Its aim is to develop the capacities latent in human nature and coordinate their expression for the enrichment and progress of the society, by equipping students with spiritual, moral and material knowledge. In this direction, let all of us work and equip ourselves towards the achievements of the same.

**Department Vision:**

“To produce Professionally Excellent and Globally competent Technocrats needed to meet the Challenges in the Emerging Fields of Mechanical Engineering”

**Department Mission:**

- MD 1:** To Provide Quality Education in Mechanical Engineering and Management.
- MD 2:** To Establish a Continuous Industry Institute Interaction, Participation, Collaboration to Contribute Skilled Mechanical Engineers.
- MD 3:** To Impart Human, Socio-Ethical Values and Entrepreneur Skills among Mechanical Engineers.
- MD 4:** To Promote Research and Development (R & D) and Innovative Technologies in the Emerging Areas of Mechanical Engineering.

**Program Educational Objectives (PEOs)**

The Program Educational Objectives (PEOs) support and are in consonance with the Mission of the Institution and the department. The attempt was to define PEOs as broad based, general statements that describe the career and professional accomplishments that the program is preparing our graduates to achieve - describe long term program targets.

- PEO 1:** Graduates of Mechanical Engineering will have strong Academic foundation for successful professional career.
- PEO 2:** Graduates of Mechanical Engineering will have required skills to excel in the area of Mechanical Engineering both in Industries and Academics.
- PEO 3:** Graduates of Mechanical Engineering will have awareness towards Higher Education, R & D and Socio-Ethical values.

**Program Specific Outcomes (PSOs)**

The department of Mechanical Engineering has framed the following Program Specific Outcomes in consultation with concerned stakeholder and corresponding committees.

- PSO 1:** Graduates will be capable of design, develop, analyze and implement the efficient mechanical system to meet the specific necessities.
- PSO 2:** Graduates will be capable to develop research skills in developing self sustainable energy sources and composite materials in Mechanical Engineering.

## FACULTY ACHIEVEMENTS



Doctor of Philosophy (Ph.D) awarded to  
Prof. G Jagannath Reddy by  
Viswewaraya Technological University,  
Belagavi  
Research Topic

SPRAY DEPOSITION PROCESSING AND  
CHARACTERIZATION OF ALUMINIUM ALLOYS

Convocation was held at VTU, Belagavi on 9th May 2015



Dr. Hiregoudar Yerrenna Goudaru  
attended International Conference  
on

MECHANICAL, AERONAUTICS AND PRODUCTION  
ENGINEERING

on 7<sup>th</sup> to 9<sup>th</sup> May 2015  
at Kyoto , Japan

**Following Faculty of Mechanical Engineering are registered for Ph.D. in the  
Academic Year 2014-15**

Sl. No.	Name of the Faculty	University
1	Sri. KOTRESH SARDAR	REVA University
2	Sri. M BALAJI	VTU
3	Sri. R H M SOMANATH SWAMY	VTU
4	Sri. LAKSHMAN NAIK T K	VTU
5	Sri. G MAHESH	VTU
6	Sri. G MANJUNATH SWAMY	VTU

The expert in anything was once a beginner. – Helen Hayes

## FACULTY ACHIEVEMENTS



Dr. Nagaraj Kori  
Professor & Head  
Mechanical Engineering

- Dr. Nagaraj Kori was invited as a Technical Session Chair Person In the 3rd National Conference on Mechanical Engineering Trends - COMET2015 at Bellary Institute of Technology and Management, Bellary on 20-21st Feb 2015



Dr. HiregoudarYerrenna  
Goudaru  
Professor  
Mechanical Engineering

- Dr. Hiregoudar Yerrenna Goudar was invited as a Guest Speaker/Resource Person for International Conference on Aeronautics and Production Engineering (ICMAPE), II-RIETCHN-26075-1467, organized by IIER in Beijing, China, 26th July 2015
- He was invited as a Guest Speaker/Resource Person on Bio- fuels for science day on Sir CV Raman's Birth day celebration, organized by the Department of Science, Veerashaiva College, Bellary- 583104 on 28th Feb 2015
- He was invited as a Technical Session Chair Person In the 3rd National Conference on Mechanical Engineeringtrends-COMET2015 at Bellary Institute of Technology and Management, Bellary on 20 - 21st Feb 2015



Sri. S K Modi  
Associate Professor  
Mechanical Engineering

- Sri. S K Modi was invited as a Chair Person for Technical Paper Presentation at SAMMELAN 2015 at JNTU College of Engineering, Ananthapuram on March 12, 2015



The automobile engine will come, and then I will  
consider my life's work complete.  
(Rudolf Diesel)

## FACULTY PUBLICATIONS

Title of the Paper	Publications
<b>Dr. Kori Nagaraj, M.E.,Ph.D</b>	
Effect of T6 type heat treatment on the Mechanical characterization of Al6061 Al2O3 particulate composites	IJETED, Issue 5, Vol. 3, April. May. 2015.
<b>Dr. Hiregoudar Yerrennagoudar, M.E.,Ph.D</b>	
Dr.HiregoudarYerrennagoudar “Investigation and Piston to piston comparison of Twin Cylinder Diesel Engine Fueled with Pongamia oil and Diesel oil”	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE), II-MAPEITL-28035- 439,Rome, Italy28th March 2015
“ Investigation and Piston to piston comparison of Twin Cylinder Diesel Engine Fueled with Pongamia oil and Diesel oil”	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE),II-MAPEITL-28035 - 439,Kyoto, Japan 7th to 9th May 2015
“Investigation of Methanol in Twin cylinder in line 4 Stroke liquid cooled Diesel Engine”	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE) Beijing, China 26th July 2015
<b>Dr. G Jagannath Reddy, M.E.,Ph.D, Sri. Vithal Rao Chavan, M.Tech, (Ph.D)</b>	
Fabrication and evaluation of Mechanical properties of Fe <sub>2</sub> O <sub>3</sub> particulate filled hybrid composites	Journal of the International Association of Advanced Technology and Science on March 2015. ISSN - 33474482
<b>Sri. V Balaraj, M.Tech</b>	
Effect of T6 type heat treatment on the Mechanical characterization of Al6061 Al2O3 particulate composites	IJETED, Issue 5, Vol. 3, April. May. 2015
<b>Sri. Veerabhadrapppa Algur, M.Tech, (Ph.D)</b>	
The Effect Of Pearlite, Cementite And Marten Site Phases On Volumetric Wear Rate Of Hypereutectoid Steel Under Dry Sliding Conditions	International Journal of Metallurgical & Materials Science and Engineering (IJMMSE), Vol. 5, Issue 1, Feb 2015, pp. 31-38, ISSN:2278-2516
Dry Sliding Wear Behaviour Of Hypereutectoid Steel Under The Influence Of Microstructures, Sliding Speeds And Normal Pressures	International Journal of Mechanical Engineering and Robotics Research, Vol. 4, No. 2, April 2015, ISSN 2278-0149
Fabrication And Evaluation Of Mechanical Properties Of Fe <sub>2</sub> O <sub>3</sub> Particulate Filled Hybrid Composites	Journal of the International Association of Advanced Technology and Science, Vol.16, Nol. 01, March 2015, ISSN-3347-4482
Effect of T6 type heat treatment on the Mechanical characterization of Al6061-Al2O3 particulate composites	International Journal of Emerging Trends in Engineering and Development, Issue 5, Vol. 3 (April.- May. 2015), ISSN 2249-6149,Pp-309-319.
Optimization of sliding specific wear and Frictional force behaviour of Modified ZA-27 alloy using Taguchi Method	International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 3 Issue: 5, ISSN: 2321-8169, May 2015, Pp2644-2649.

If you have always done it that way, it is probably wrong. – Charles Kettering



## SUPERANNUATION

**Sri. A Ramakrishna**

Mechanic, Department of Mechanical Engineering has served our institution for 20 years and retired from the service on October-2014.

*'Wishing you good health and peaceful life'*

**Sri. Ramachandra Rao**

Foreman, Department of Industrial and Production Engineering has served our institution for 30 years and retired from the service on May-2015.

*'Wishing you good health and peaceful life'*

**Sri. Agali Kashinath**

Instructor, Department of Mechanical Engineering has served our institution for 30 years and retired from the service on June-2015.

*'Wishing you good health and peaceful life'*

## BURY MY BODY, DO NOT BUILD ANY MONUMENT, KEEP MY HANDS OUTSIDE

The great Greek king, Alexander, after conquering many kingdoms, was returning home. On the way, he fell ill and he was bedridden for months. With death drawing close, Alexander realized how his conquests, his great army, his sharp sword and all his wealth were of no use.

He called his generals and said, "I will depart from this world soon. But I have three wishes. Please fulfill my wishes without fail." With tears flowing down their cheeks, the generals agreed to abide by their king's last wishes.

"My first desire is that," said Alexander, "my physicians alone must carry my coffin." "Secondly, when my coffin is being carried to the grave, the path leading to the graveyard should be strewn with gold, silver and precious stones which I have collected in my treasury. My third and last wish is that both my hands should be kept dangling out of my coffin." The people who had gathered there wondered at the king's strange wishes. But no one dared to question. Alexander's favorite general kissed his hand and pressed them to his heart. "O king, we assure you that your wishes will all be fulfilled. But tell us why do you make such strange wishes?"

At this Alexander took a deep breath and said, "I would like the world to know of the three lessons I have just learned. I want my physicians to carry my coffin because people should realize that no doctor can really cure anybody. They are powerless and cannot save a person from the clutches of death. So let not people take life for granted.

The second wish of strewing gold, silver and other riches on the way to the graveyard is to tell people that not even a fraction of gold can be taken by me. Let people realize that it is sheer waste of time to chase wealth.

### OUR DEEPEST CONDOLENCE

Sri. Yerriswamy  
Assistant Instructor  
Mechanical Engineering  
DOB : 01-07-1958  
DOD : 15-03-2015



Sri. B G Shivanna  
Assistant Instructor  
Mechanical Engineering  
DOB : 01-06-1960  
DOD : 18-03-2015



"Sometimes, it's better to  
bunk a class and enjoy with friends,  
because now, when I look back,  
marks never make me laugh, but  
memories do."

Dr. A.P.J. Abdul Kalam

1931 - 2015



Failure defeats losers, failure inspires winners – Robert T. Kiyosaki

## STUDENTS UPDATES

Following Students of RYMEC, Mechanical Department participated in Karnataka Technocultural Fest—DRESTIN during the year 204-15 at BITM, Ballari

SI. No.	Name	Semester	Secured Prize	Event Name
1	AijazRabbani, & Md. ShahidAkhtar	VI	First Prize	Design / Model Making
2	Daniel Remond.S, & Shravan.H.M	IV	First Prize	Technical Paper Presentation
3	Daniel Remond.S, & Shravan.H.M	IV	Second Prize	Brainstorming



**Students Receiving Prize at DRESTIN held at BITM, Ballari**

### Publications by Students

Students namely Sri. Vasudendra and Sri. Sudheer K of VIII SEM IPE have presented papers titled “Wear Behaviour of Modified ZA-27 Alloy”, at 3<sup>rd</sup> National Conference on “Mechanical Engineering Trends” organized by Department of Mechanical Engineering, on 20<sup>th</sup> & 21<sup>st</sup> February 2015 at BITM, Ballari under the guidance of Sri. Veerabhadrappa Algur

### Social Activities by Students

Students of 2<sup>nd</sup> Year , 3<sup>rd</sup> Year and 4<sup>th</sup> year are actively participated in Swatch RYMEC event in the month of April 2015.

### Sports Achievements

Aruna Kumari of 3<sup>rd</sup> Sem IPE secured First Prize in the group event Hockey held at VTU, Regional Office, Mysore during 4<sup>th</sup> – 5<sup>th</sup> April 2015



STUDENTS UPDATES

Following Students of RYMEC, Mechanical Department participated in Cultural activity **SAMMELAN 2K15 National Level Technical Fest**, Jawaharlal Nehru Technological University, JNTUA College of Engineering, Anantapuram - AP on 12-March-2015 and secured prizes in different events.



Students Participation from Department of Mechanical Engineering at JNTU College of Engineering, Anantapuram



First Prize in Model Making SaurabKadadi.Y, N.K.Akash & Prashanth.R of 6th Sem Mechanical Engg under the guidance of Sri. S G Desai



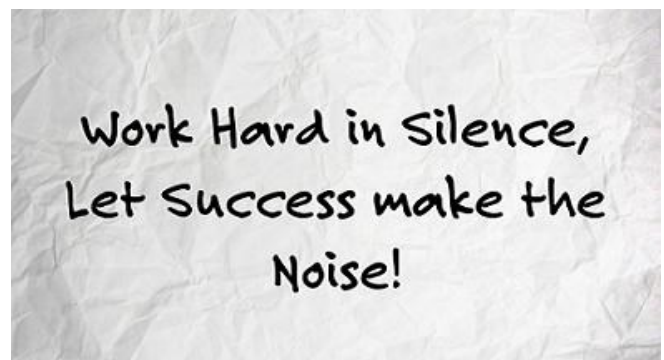
Third Prize in Junkyard & Chair Assembly : SachinKumar.M, W.PavanKumar & Rajkumar of 6th Sem Mechanical Engg.



First Prize in Photography : Aijaz Rabbani and Team of 6th Sem Mechanical Engg.



Second Prize in Technical Paper Presentation : Daniel Remond.S & Shravan.H.M of 4th Sem Mechanical Engg.



There is no substitute for hard work. – Thomas Edison