

## NEWS LETTER

VEERASAIVA VIDYAVARDHAKA SANGHA'S  
RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BALLARI

# YANTRIKA

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING



## Message from the Head



Welcome to Mechanical Engineering Department, R Y M Engineering College. We started our journey in the year 1980 and over the decades, we have grown our expertise and competence in Mechanical Engineering and Research. At undergraduate level we have programs in Bachelor of Engineering, Post graduate level we offer

M. Tech in two different streams viz. Thermal Power Engineering and Production Management. The department has a Research Center affiliated to Visveswaraya Technological University, Belgaum. At present we have seven Ph.D scholars, having expertise in different fields of research. The primary focus of our curriculum is to impart technical skills among students and promote their problem solving capabilities that include hands-on experience by the faculty.

We strive our best to ensure that all our students gain strong academic foundation where they can develop technical, leadership skills and involve themselves in extracurricular activities as well. We believe that emphasizing in these areas will make our students well equipped to take leadership roles in the near future. Students are encouraged to undertake various research projects in their academic course. Faculty of our department have authored many papers in their research fields and are also serving as reviewers of technical papers for journals on regular basis.

Our website provides the complete picture of the academic program, details of student activities, workshops and seminars conducted profiles of faculty members and newsletters of the department. We hope that the visitor finds the website sufficiently informative.

Department always looks forward in contributing to the welfare of engineering society with active participation from all sections.

Regards

**Dr. Kori Nagaraj**  
**Professor & Head**  
**Mechanical Engineering**  
**R Y M Engineering College**

### Editorial Board

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## FACULTY ACHIEVEMENTS

### Award of Doctoral Degree



Prof. Shiva Kumar Modi has been awarded Doctoral Degree from Jawaharlal Nehru Technological University, in the department of Mechanical Engineering (Heat Transfer) on 28th December 2016 for thesis entitled **Characterization of Thermo-physical Properties of Fruits by Dehydration and using Heat Transfer Analysis.**

### Talk on Life Achievements of Sir M Visveswarya

Dr. A Thimmanagouda, Prof & head of Industrial and Production Engineering department delivered a talk on Life Achievements of Sir M Visveswarya on 7th November 2016 at Sri, Guru Thipperudra College Ballary, in collaboration with Kannada Sahithya Parishath.

He was also a Jury Member for State Level Project Exhibition conducted by Government of Karnataka from 20th to 21st December 2016 at Vianey Vidyalaya, Ballari.



**Prof. M R INDUDHAR**  
Associate Professor

Sri. M R Indudhar, Associate Professor is Reviewer for **International Journal of Engineering, Science and Technology.** (AJOL), ISSN:2141-2839



Sri. Chandrashekar Hiregoudar, Associate Professor, department of Industrial and Production Engineering and Sri G Veerendra Patil-Helper , Department of Mechanical Engineering has undergone basic training on Fire Prevention and Fire Fighting from 19th-21st December 2016 at R A Mundkur Fire and Emergency Services Academy, Bangalore

## FACULTY DEVELOPMENT PROGRAM



**Four days Faculty Development Program on Outcome Based Education was conducted from 16th-19th Jan 2016. Resource person Dr. Suresh Rupanagudi, Professor, BMSCE, Bengaluru addressed the gathering**



## PAPERS PUBLISHED BY FACULTY

Sl. No	Title of Paper	Publication details
<b>Vithal Rao Chauhan, M.Tech, (Ph.D), Dr. K Veeresh, M.Tech, Ph.D</b>		
01	Taguchi's orthogonal array approach to evaluate drilling of GFRP particulate composites	SIT, Tumkur, Karnataka, AMMMT2016, Material today proceedings. 23-24September, 2016
<b>M R Indudhar, M.Tech, (Ph.D)</b>		
02	Dual fuel engines fuelled with three gaseous and biodiesel combinations	Biofuels of Taylor and Francis, Vol. 8, Issue 1, ISSN: 1759-7277, Nov - 2016
03	Combustion and exhaust emission study in Single Cylinder Four Stroke Diesel Engine with Swirl Augmentation Techniques	Biofuels of Taylor and Francis, Vol. 8, Issue 1, ISSN: 1759-7277, Dec - 2016
<b>P K Pavan, M.Tech, (Ph.D)</b>		
04	An Investigation to reduce emissions from IC Engines	Volume 13ISSN:2278-1684, Sep. - Oct. 2016, IOSR-JMCE
<b>Vithal Rao Chauhan, M.Tech, (Ph.D)</b>		
05	Influence of Mn Content on Tribological Wear Behaviour of ZA-27 Alloy	SIT, Tumkur, Karnataka , AMMMT 2016, Material today proceedings. 23 -24 September, 2016
<b>Veerabhadrapa Algur, M.Tech, (Ph.D)</b>		
06	Influence of Mn Content on Tribological Wear Behaviour of ZA-27 Alloy	SIT, Tumkur, Karnataka , AMMMT2016, Material today proceedings. 23-24September, 2016
07	Taguchi's orthogonal array approach to evaluate drilling of GFRP particulate composites	SIT, Tumkur, Karnataka , AMMMT2016, Material today proceedings. 23-24September, 2016
08	Studies of Mechanical Characterization of High Strength Deformed Steel Bars	Vol. 2, Issue 8, ISSN: 2395-1052- AUGUST 2016, IJSART
<b>Mahendra K C, M.Tech, Virupaksha Gouda H, M.Tech, A M Shivaprakash Swamy, M.Tech, (Ph.D)</b>		
09	Fabrication of Erosion Corrosion Equipment and Testing of Al 6063 Alloy	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 5 Issue 11, November-2016



## STUDENT ACHIEVEMENTS

### Placement Details

Mechanical Students Placed for various Companies during the Academic Year 2016-17

Sl.	Name of the student	Company
1	Chethan G R	TCS, Bangalore
2	A Choudhari	TCS, Bangalore
3	Abhishek G	TCS, Bangalore
4	Momammed Yasin A	TCS, Bangalore
5	N B Pruthviraj	TCS, Bangalore
6	Mallikarjuna M C	TCS, Bangalore
7	Praveen Kumar Palturu	TCS, Bangalore
8	Rjio Sunny	Weldcraft Private Limited, Bangalore
9	Pratap Choudhari	SLK Software, Bangalore
10	Gajula Dinesh Babu	SLK Software, Bangalore



Akhil Kumar

Akhil Kumar student of Vth semester participated in Two Day National Level Students Technical Fest **Advitiya 16** at K.L.E. Institute of Technology, Hubballi on 23<sup>rd</sup> and 24<sup>th</sup> September 2016 and Presented paper on “Non Conventional Energy Sources”.

### Short Film in YouTube

Vasantha Kumar Medar of V<sup>th</sup> semester Industrial & Production Engineering and his friends created a short film **Koodudale, Jobs in 2018** taking concept of engineers situation after the completion of degree. Short film can be viewed in YouTube with following link:

<https://youtu.be/pbspgsfkpye>.

His team also created an Album Video Song **Dixcy Boy**. This can also be viewed in YouTube with following link:

<http://youtu.be/yaavgoakaxl>



Vasanth Kumar Medar

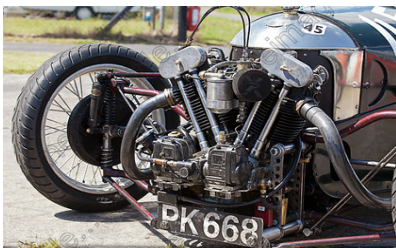
## STUDENTS WORKSHOP

Three Day Workshop on **ENGINE TECHNOLOGY** was organized by the Department of Mechanical & Industrial Production Engineering for the Pre-Final Year students, from 26<sup>th</sup> to 28<sup>th</sup> October 2016. A team of experts Madhusudan P S and Suraj S D from **M/S Rectangle Automotive Technologies LLP**, Davanagere, explained the concepts. Workshop was designed on both theoretical and hands on experience basis in order to improve practical skills of students. Further the faculties of both departments conducted the same program to 250 students of the department.

### THREE DAY WORKSHOP ENGINE TECHNOLOGY



**Clockwise from the top:** 1)Expert speaking on the event, 2) & 3)Concept being explained to students and faculty members, 4)Hands on experience being given to students



## STUDENTS INDUSTRIAL VISITS



One Day Industrial Visit was organized to EMD Loco shed & Carriage workshop, Southern Western railways, Hubballi on 19-08-2016 for Pre-final year students of Mechanical and I&P Engineering

One Day Industrial Visit was organized on 19th October 2016 to M/S. Mcallus, Manufacturers of Orthopedic Implants & Instruments, Mundargi Industrial Area, Ballari, for final year students.



One Day Industrial Visit was organized on 19th October 2016 to M/S. HalleysBlue Steels Pvt Ltd , Mundargi Industrial Area, Ballari for Final Year students.



## DEPARTMENT OF MECHANICAL ENGINEERING

### VISION OF THE DEPARTMENT

**To Produce Professionally Excellent and Globally Competent Technocrats needed to Meet the Challenges in the Emerging Fields of Mechanical Engineering**

### MISSION OF THE DEPARTMENT

- **To provide quality education in Mechanical Engineering and Management.**
- **To Establish a Continuous Industry Institute Interaction, Participation, Collaboration to Contribute Skilled Mechanical Engineers**
- **To Impart Human, Socio-Ethical values and Entrepreneur skills among Mechanical Engineers**
- **To Promote Research and Development (R & D) and Innovative Technologies in the Emerging Areas of Mechanical Engineering**

### PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1	<b>Graduates of Mechanical Engineering shall Develop Strong Academic Foundation for Successful Professional Career.</b>
PEO2	<b>Graduates of Mechanical Engineering Acquires skills to excel in the area of Mechanical Engineering both in Industries and Academics.</b>
PEO3	<b>Graduates of Mechanical Engineering Possess awareness towards Higher Education, R &amp; D and Socio-Ethical values.</b>

### PROGRAM SPECIFIC OUTCOME'S (PSO'S)

PSO 1	<b>Graduates are able to Design, Analyze and Develop Mechanical Systems.</b>
PSO 2	<b>Graduates are Capable of Developing Research Skills in Self Sustainable Energy sources and Composite Materials.</b>