

# DEPARTMENT OF MECHANICAL ENGINEERING RAJARAJESWARI COLLEGE OF ENGINEERING

(An ISO 9000 - 2001 Certified Institution)

(Affiliated to the Visvesvaraya Technological University, Belgaum)

(Approved by the AICTE, New Delhi and Recognized by Government of Karnataka)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru-560074.

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## NEWSLETTER

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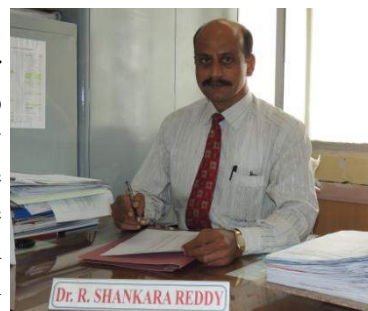
**Dr. M. Murugesh Mudaliar**  
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**Sri. S. Jayabalan**  
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**Dr. M. S. Bhagyashekar**  
Principal,  
RRCE, B'luru

### Editorial Board

My heartily welcome to the first issue of our **Department Newsletter December 2013** and also first news letter at RRCE. I am indeed very happy and proud in bringing this newsletter about the latest developments and programs in the department. News letter acts as a communication channel among the alumni, faculty, students and experts in Mechanical Engineering.



**Prof. Dr. R. Shankara Reddy**

**We are very much grateful to the Management, Rector and Principal for their continuous encouragement, inspiration and support extended for the release of this “NEWS LETTER”**

“Necessity is the mother of Invention”, Initiation, Inspiration, Inventions, Innovations and Challenges are never ending programs of the universe. Every investigation big or small counts but always begins with a single step. Mecholites, the ‘Evergreen’ all rounder engineers have immense potential within them. This potential can be transformed into academic and research activities by waking up their minds.

**“The Archer is known for his ability but not for his Arrow..!”**

### Department at a Glance:

The Department of Mechanical Engineering was started in the year 2006 with UG program of 60 student strength and PG program in 2013 with student strength of 18 has highly qualified faculty with good blend of experience from both Academics and Industry. The department has well equipped laboratories with advanced software's. Within a span of 7 years the department has reached ‘Center of Excellence’ by attaining good academic results, conducting many seminars, conferences, workshops, FDPs, Industry - Institute Interactions at

### Courses Offered:

UG Programme	:	B.E. (4 Years Course)	(Full Time)
PG Programme	:	M.Tech ( 2 Year Course)	(Full Time)
R and D Programme	:	M. Sc. Engg. (By Research)	(Full Time/Part Time)

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**Dr. M. S. Bhagyashekar, PhD**  
**Professor and Principal**  
**Specialization: Polymer Composites**



**Dr. R. Shankara Reddy, PhD**  
**Professor and Head, Mech. Engg.**  
**Specialization: Ceramic Composites**



**Dr. S G Sangasetty, PhD**  
**Professor**  
**Specialization: Thermal Power Engg.**



**Prof. N Sreenivasalu Reddy**  
**Associate Professor**  
**Specialization: Thermal Power Engg.**



**Prof. Thanuj Kumar .M**  
**Associate Professor**  
**Specialization: M.Tech, Manufacturing Science and Engineering, (PhD)**



**Prof. Pramod V. Koujalagi**  
**Associate Professor**  
**Specialization: M.Tech, Production Engineering**



**Prof. Anand .A**  
**Assistant Professor**  
**Specialization: M.Tech, CIM**



**Prof. Dhananjay .B .S**  
**Assistant Professor**  
**Specialization: M.Tech, CIM**



**Prof. Praveen Kumar .S .P**  
**Assistant Professor**  
**Specialization: M.Tech, PEST**



**Prof. Bheemrao D. Wadekar**  
**Assistant Professor**  
**Specialization: M.Tech, Thermal Power Engineering**



**Prof. Madhu .K .S**  
**Assistant Professor**  
**Specialization: M.Tech, Thermal Power Engineering**



**Prof. Satheesha V**  
**Assistant Professor**  
**Specialization: M.E, Thermal Engg.**



**Prof. Radhakrishna .R .K**  
**Assistant Professor**  
**Specialization: M.Tech, Machine Design**



**Prof. Ravi Kumar .T**  
**Assistant Professor**  
**Specialization: M.Tech, Machine Design**



**Prof. Jogi Adarsh .S**  
**Assistant Professor**  
**Specialization: M.S in Mech./ Aerospace Engg. /CFD, USA.**



## Laboratories Mechanical Engineering

## Association of

Department Association called “**VIBRAZONE**” was formed in the year 2010. In order to provide a platform for the students and faculty to present and share their ideas, thoughts and findings and to conduct expert lectures, seminars, workshops, symposiums, conferences etc. This also aims in bringing pioneers in mechanical engineering from academia, industry, R &D, etc. so as to ignite the young engineering minds to drive them towards the excellence in Mechanical Engineering Science and Technology.

### Events / Programs organized

- 1) Technical Seminar on “Nanotechnology” by Dr. Martin Zeebraz, Dean VTU, Principal - Dr. AIT, Bengaluru.
- 2) Technical Seminar on “Energy Options for Future” by Dr. A. Ramachandra Prof. and Dean, AMC College of Engineering.
- 3) Two Days National Level Workshop on “I-ROBOTICS” in collaboration with M/s Robosapiens India Pvt. Ltd. and IIT Kharagpur.
- 4) Teachers Day, Engineers Day, Farewell, etc., were celebrated under the banner of Association of Mechanical Engineers.
- 5) Alumni Day is celebrated on 26<sup>th</sup> jan 2014.
- 6) Industrial Visits were also conducted to companies like Aerospace Division of HAL, Toyota Kirloskar at Bidadi and Sansera Engineering Pvt. Ltd. at Bommasandra Industrial Area, Bengaluru.
- 7) Industrial Visit to Engine Division, HAL, Bengaluru was organized.

### Committee Members

#### Chairman:

Dr. Shankara Reddy .R

#### Secretary:

Anand .A

#### Joint Secretary:

Radhakrishna .R .K

#### Treasurer:

Ravi Kumar .T

#### Student Members:

- 1) Sashwath, 7<sup>th</sup> Sem
- 2) Abilash, 7<sup>th</sup> Sem
- 3) Sathwik, 7<sup>th</sup> Sem



“.....I couldn't fix your brakes. So I made your Horn Louder....! .....”

1. Workshop Practice
2. Computer Aided Engineering Drawing Lab
3. Computer Aided Machine Drawing
4. Metallographic and Material Testing Lab
5. Foundry and Forging Lab
6. Mechanical Measurements and Metrology Lab
7. Machine Shop
8. Fluid Mechanics Lab
9. Energy Conversion lab
10. Computer Aided Modeling and Analysis Lab
11. Heat and Mass Transfer Lab
12. CIM and Automation Lab
13. Design lab
14. Research and Development (R&D) Lab

#### **Common Facilities in the Dept. and College:**

1. Central Library
2. Department Library
3. Digital Library
4. Laboratory Facilities
5. Common Computing Facility
6. “EDUSAT” Program
7. “NPTEL” Program
8. Industrial Visits
9. News Letters at Department and College Level.
10. Personality Development Programmes.
11. Placement Activities.
12. Sports (Indoor and Out Door Games)
13. Cultural Activities and Co-Curricular Activities.
14. Deputing Students with sponsorship to Participate in Sports at Intercollegiate, University, State and National Level.
15. Deputing Students sponsorship to participate in Workshops, Symposiums, Conferences, Seminars at University, National and International Level.
16. Deputing faculties with sponsorship to participate and present papers in workshops, symposiums, conferences, seminars at national and international levels.
17. NSS Activities to develop “Institute - Society” Interaction.

**Seminars:**

1. Simulation Techniques in Engineering by M/s Infosys, Bengaluru.
2. Product Life Cycle Management by M/s Global Talent Track, Bengaluru.
3. Energy Options for Future by Dr. A Ramachandra, AMC College of Engg., Bengaluru.
4. Role of Engineers in Modern Society by M/s. Rail Wheel Factory, Bengaluru.
5. Nanotechnology by Dr. Martin Jebraz, Dr.AIT, Bengaluru.
6. An overview of Composite Materials by Dr. R. Shankara Reddy, RRCE, Bengaluru.
7. Mechanical Engineering Challenges and Vision by Dr. M. A. Murtaza, RRCE, Bengaluru.
8. Finite Element Analysis [FEA] - A powerful tool in Bio-Medical Applications by Dr. C.S.Ramesh, PESIT, Bengaluru.

**Workshops:**

1. Two day National level workshop on “**I-ROBOTICS**” in collaboration with M/s Robosapiens India Pvt. Ltd. and IIT Kharagpur.
2. Two day National level workshop on “**Computational Fluid Dynamics [CFD]**”
3. One day State level Work Shop on “**Mechatronics**”
4. Two Days Orientation Program in **Mechanical Engineering**

**Faculty Development Program:**

1. Three Days “Faculty Development Program (FDP)” on “Computer Aided Engineering Drawing (CAED)” held on 31<sup>st</sup> Jan to 2<sup>nd</sup> Feb 2011.
2. Fifteen Days “Faculty Development Program (FDP)” on “Preparation and up gradation of Mech. Engg. Lab Manuals” held on 3<sup>rd</sup> to 21<sup>st</sup> Sep 2012.

**Industrial Visits:**

1. M/s. Tayota Kirloskar Ltd. Bidadi, Bangalore.
2. M/s. HAL, Aerospace Division, New Thippasandra, Bangalore.
3. M/s. SANSERA Engineering India Pvt. Ltd, Bommasandra, Bangalore.
4. M/s. HAL, Engine Division, Bengaluru.

**Our Sponsors for some of the above Events**





## Dignitaries at our Dias



**Padmasri Prof. R. M. Vasagam**



**Dr. R. M. V. G. K. Rao**



**Dr. S. A. Kori  
Mr. Vijayanand .S (ED)**



**Dr. M. K. Muralidhara**









**Dr. R. S. Kulkarni  
Dr. A. Ramachandra**









**Dr. Martin Jeebraz**

**Passing-Out, Batch (2009-13)**

6 <sup>th</sup> Semester			5 <sup>th</sup> Semester		
					
<b>Zeeshan Ahmed</b> 80%	<b>Nikhil P Joshi</b> 78%	<b>Sharath Kumar</b> 76%	<b>Nikhil P Joshi</b> 78%	<b>Sharath Kumar</b> 76%	<b>Zeeshan Ahmed</b> 73%

**Pre-Final Year, Batch (2010-14)**

4 <sup>th</sup> Semester			3 <sup>rd</sup> Semester		
					
<b>Pavin.T.F</b> 86%	<b>Raghuvveer .A .L</b> 76%	<b>Mohan.S</b> 74%	<b>Pavin.T.F</b> 83%	<b>Venkatesh P</b> 80%	<b>Raghuvveer .A .L</b> 80%

**2<sup>nd</sup> Year, Batch (2011-15)**

2 <sup>nd</sup> Semester			1 <sup>st</sup> Semester		
					
<b>Ajay Prajapathi</b> 86%	<b>Pernabas N</b> 74%	<b>Abilash</b> 72%	<b>Ajay Prajapathi</b> 85%	<b>Pernabas N</b> 73%	<b>Pavan Kumar</b> 69%

## Publications :

1. Kailash<sup>1</sup>, S. Gowreesh, N. Sreenivasalu Reddy, Optimization of Heat Transfer and Pressure Drop of A Plate Fin-Tube Heat Exchanger Using CFD, International Journal of Engineering Studies, Volume 5, Number 1 (2013), pp. 55-71.
2. N. Sreenivasalu Reddy, K. Rajagopal, P.H Veena and V.K Pravin, A two dimensional pressure-based solver for incompressible/compressible flows, International Journal of Computational Physical Sciences, Volume 4, Number 1 (2013), pp. 1-6.
3. N. Sreenivasalu Reddy, K. Rajagopal, P.H Veena and V.K Pravin, A pressure based solver for an incompressible laminar Newtonian fluids, International Journal of Fluids Engineering, Volume 5, Number 1 (2013), pp. 397- 402.
4. Kailash, S. Gowreesh and N. Sreenivasalu Reddy, Optimization of heat transfer and pressure drop of a plate fin-tube heat exchanger using CFD , International Journal of Engineering Studies, Volume 5, Number 1 (2013), pp. 55-71.
5. Dr. S. G. Sangashetty, B.D. Wadekar, Dr. R. Shankara Reddy & M/.S. Bhagyashekar have published paper entitled "Design & fabrication of Eco friendly heater and cooler" at National Conference innovations in civil engineering on 26 Oct'2013 held at RRCE of Engineering ,Bangalore.
- 6.



## Photo Galley



### **EDITORIAL BOARD:**

**Dr. M. S. Bhagyashekar**  
Principal, RRCE, B'luru

**Dr. R. Shankara Reddy**  
Professor and Head, Dept. of Mech. Engg.

Dr. S G Sangashetty,  
Professor & P G Coordinator.

### ***Contact Details:***

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