



# NEWS LETTER<sup>1-15</sup>

DEPARTMENT OF MECHANICAL ENGINEERING  
SIR C R R COLLEGE OF ENGINEERING

volume '11

OCTOBER '2018

## AT A GLIMPSE

Stuent Achivements  
Placements  
Student Participation  
Staff Achievements  
Work shops  
Guest Lectures  
Sports and Games  
Cultural Activities  
Research Publications  
Dept Library

## EDITORIAL BOARD

Dr K VENKATESWARA RAO  
H.O.D

### STAFF COORDINATORS:

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Mr. T. RAMAKRISHNA  
Mrs. CH LAKSHMI POORNIMA

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B LAKSHMI NARASIMHA   3/4 MECH  
B. TEJASRI      2/4 MECH

## FROM H.O.D'S HELP DESK



I have great pleasure and pride to announce that the Department of Mechanical Engineering, Sir C R R College of Engineering is publishing the first

News letter in this Academic year. This news letter will help to share the News, Events and achievements of the Department, I would like to congratulate all Members of the editorial board for their sincere effort to release this news venture. I earnestly wish and sincerely hope that this publication turns-out to be a resounding success.

-- Dr . K VENKATESWARA RAO

## PRINCIPALS MESSAGE



My heartiest congratulations to the Department of Mechanical Engineering in bringing out a news letter portraying the Academic and non

Academic activities of our Department in the era of 'Outcome based Education' empowering the students is the thrust area to be addressed in a professional Institution and I am happy to know that Mechanical Department moving towards that goal. I extend my best wishes to the supporting faculty and students of Mechanical Department in their upcoming endeavor News letter.

-- Dr. Gutta Sambasiva

## Vision of the department:

To be a center of excellence in the field of Mechanical Engineering where the best of teaching, learning and research synergize with a broader sense of social responsibility

## Mission of the Department

To become a nerve center for academic excellence in Mechanical Engineering for all-round development of students by high quality teaching and learning, through research oriented education and Inculcating ethical values and responsibility



## **VISION OF THE COLLEGE**

To Emerge As A Premier Institution In The Field Of Technical Education And Research In The State And As Home For Holistic Development Of The Students And Contribute To The Advancement of Society And The Region.

## **MISSION OF THE COLLEGE**

M1 To Provide High Quality Technical Education Through A Creative Balance Of Academic And Industry-oriented Learning.

M2 To Create An Inspiring Environment Of Scholarship And Research

M3 To Instill High Levels Of Academic And Professional Discipline

M4 To Establishes Standards That Inculcate Ethical And Moral Values Which Contribute To Growth In Career And Development Of Society.



## Our College's Infrastructure:-





## THE STRENGTH OF OUR DEPARTMENT:- WELL QUALIFIED & EXPERIENCED FACULTY

The Department has 29 Teaching Faculty members.

Out of this 06 are Doctorates, one has submitted his Thesis. The remaining staff members are M.Tech.

Degree holders and well experienced. They are from reputed Institutions. Average experience is more than 12 years.





# STAFF LIST

## NAME OF THE FACULTY                      QUALIFICATION

1. Dr. K.Venkateswara Rao, HOD	----->	PH.D
2. Dr. K.Rambabu	----->	PH.D
3. Dr. J.Sudhir Kumar	----->	PH.D
4. Dr. K.Lalit Narayan	----->	PH.D
5. Dr. K.Sunil Ratna Kumar	----->	PH.D
6. Dr. M. Sri Rama Murthy	----->	PH.D
7. Sri P.S.B. Chowdary	----->	M.TECH
8. Sri D. Satyanarayana	----->	M.TECH
9. Sri T. Rama Krishna	----->	M.TECH
10. Sri K.V.P.P Chandu	----->	M.TECH
11. Sri E. Venkateswara Rao	----->	M.TECH
12. Sri Ch. Rama Krishna	----->	M.TECH
13. Sri B.V. Subrahmanyam	----->	M.TECH
14. Sri S.V. Gopala Krishna	----->	M.TECH
15. Mrs. Ch. Lakshmi Poonima	----->	M.TECH
16. Sri L.N.V Narasimha Rao	----->	M.E
17. Sri Ch. Chandra Rao	----->	M.E
18. Sri A Srinivasa Rao	----->	M.TECH
19. Sri E. Srinivas	----->	M.TECH
20. Sri K. Anjaneyulu	----->	M.TECH
21. Mrs. M.N.V. Alekhya	----->	M.TECH
22. Sri A. S. Ganapathi	----->	ME
23. Ms. K. V. Kalyani	----->	ME
24. Sri V. Naveen Kumar	----->	ME
25. Sri V. Shakti Kiran	----->	M.TECH
26. Sri Ch. Pavan Kumar	----->	M.TECH
27. Sri D. Phanindra Varma	----->	M.TECH



## It Is Our Glance:-

Dr.M.Sri Rama Murthy is currently working as Professor at Sir C.R.Reddy College of Engineering,Eluru.

He completed his M.Tech (Thermal Engineering) from JNTUH College of Engineering, JNTUH, Hyderabad and got my Doctorate (Ph.D) Degree in Mechanical Engineering from JNTUH,Hyderabad.

His research areas include Heat Transfer, Fluid Mechanics, Thermodynamics, Computational Fluid Dynamics and Automobile Engineering.

He is having a total experience of 32 years, out of which 20 years in the field of Teaching and 12 years in Industry.



He proclaimed that "It is an honour to be a part of CRRCOE faculty in the Department of Mechanical Engineering.

Adhering to its core values, the institute gives top priority to ethical values and high standards and a commitment to value based education.

Our team comprises of highly qualified, experienced and motivated faculty. This institute provides the state-of-art infrastructure facilities for all-round

development of students in all aspects of personality such as academic, research, cultural, sports and social responsibility.

The excellent performance of our students is well known by winning top innovative prizes in various competitions and the amazing placements record, which is the testimony for the objective education system of the institute.

I am honoured and proud to give a testimony myself, as my son and my brother's son who are doing yeomen service to the society, have graduated from this institution.

This institution has provided good environment for their development and to face challenges that they may come across in life.

Finally, I appreciate the Management, Principal, HODs and Faculty, who are working hard to provide quality education on par with international standards".



## Technical Manpower:-

*The department has adequate technical manpower,*

*Technicians:- 9 members*

*Lab helpers:- 6 members.*

*All technicians and lab helpers are highly dedicated, committed to their duties during lab hours.*

*They have more than 15 years of experience and well qualified and experienced in the academic laboratories.*

*During project work of final year students, technicians are very cooperative with the students to do students projects.*

*Students are exploiting the services of technicians such as welding, wood working, machining and material testing etc..*

*The following is the list of technicians and lab helpers,*

1. N. Satyanarayana
2. N.T.V. Satyanarayana
3. K. Anil Kumar
4. K. Durga Prasad
5. Ch. Srinivasa Rao
6. V. Maruthi Prasad
7. R. Gerata Raju
8. Shaik Hussain Saheb
9. B.N. Vishnu Kumar(lab helper)
10. R. Mahesh Babu(lab helper)
11. G. Gandhi(lab helper)
12. Ch. Satishi(lab helper)
13. Yesub(lab helper)
14. Lurdhiraju
15. M. Siva Rama Krishna(lab helper)



## Industrial visits:-

*- Industrial visit of Coco-Cola bottling unit at Mangalagiri on 24.12.2018 with 70 no. of students.*

*- M/s Krishna Engineering Company & M/s Prakash Spectro cast Pvt. Ltd., Prakash Nagar, Emikepadu, Vijayawada on 19-12-2018 with 70 no. of students.*

*- Krishna Engineering Company, & M/s Prakash Spectro cast Pvt. Ltd., Prakash Nagar, Emikepadu, Vijayawada on 18-12-2018 with 64 no. of students.*



Some Of The Pics Of Industrial Visits



## WORKSHOPS CONDUCTED IN OUR COLLEGE:-

~ One Day Workshop on 'Evolution of the Automotive Interiors' on 15th September 2018 Mechanical Engineering Department, Sir C. R. Reddy College of Engineering, The Institution of Engineers (India) Bhimavaram Local Centre.





# CNC Lab:-

- CNC Lathe
- CNC Milling Andhra Pradesh state skill development centre, SIEMENS provided this Lab with Modern manufacturing techniques, CNC programming for turning and milling.





## Four Wheeler Lab:-

- Hand operated hydraulic press
- Grinding Machine (General purpose)
- Tyre changer Machine
- Wheel alignment Machine
- Wheel Balancing Machine
- Injector cleaner and tester
- Two post hydraulic lift
- Cut model of four cylinder Diesel engine – Motorized
- Cut model of four cylinder MPFI engine – Motorized



- Working model car electrical system Andhra Pradesh state skill development centre, SIEMENS provided this Lab Learned about different parts of four wheeler, Assembling and disassembling of four wheeler components, and operating of different servicing equipments





Training on 2-Wheeler and 4-Wheeler systems

## Two Wheeler Lab:-

- Spark plug cleaner and tester
  - Pneumatic Hanger
  - Hydro Electric Scissor Lift
  - Hydraulic power pack
  - Exhaust Blower
  - Engine jig
  - Two wheeler cut section engine
  - Two wheeler ignition system
  - Mock layout of two wheeler electrical system
- Andhra Pradesh state skill development centre, SIEMENS provided this Lab, Learned about different parts of two wheeler, Assembling and disassembling of two wheeler components, and operating of different servicing equipments.



## Applied Robotic Control (ARC) Lab:-

This Lab is Established By Joint Collaboration Of Apsdc And Indo-european Center For Mechatronics, Germany. Our Institution Has Spend 20 Lakhs For This Project. It Is A Subsidized Program, Apsdc Gave A Financial Assistance And Iecm, Germany Assists Technical Support And Guidelines For How To Run The Lab. Two Low Cost Robots (igus Robot And Commonplace Robot) Had Been Supplied To The College. The Purpose Of Establishing The Lab Is To Train The Students On Industrial Robots With Low Cost Initiated By The Ap State Government In 2018. This Lab Can Be Useful For Mechanical, Electrical And Electronics, And Electronics And Communication Engineering Students.

This Lab Course Is Designed In Four Levels As It Follows:-

- Arc 1.0 – In This Course , Fundamentals And Simulation Of The Industrial Robot Will Be Introduced.
- Arc 2.0 – Training On Industrial Robots By Writing The Programs.
- Arc 3.0 – Offering Internship At Germany.
- Arc 4.0 – Offering M.s. Program In German Universities.

Applications: Welding, Painting, Assemble Of The Automobile Parts In Car Manufacturing Unit. At The End Of The Program, Student Will Be Able To Design, Analyze And Understand The Path Traced By The End Effector Of The Robot Suitable To Application Requirement.



### SKILL DEVELOPMENT CENTRES

*Associated with*

**AP STATE SKILL DEVELOPMENT CORPORATION t-SDI & ARC**



Advanced Robotic Centre in collaboration with European Centre for Mechatronics, (ACEM) (Germany)




**Robotics Laboratory**

**Overseas internships**



## Our Department Enlightened With:-

- Dr. M. Sri Ram Murthy Garu Who Have Been Certified With Nptel-4 Week Fdp On " Outcome Based Pedagogic Principles For Effective Teaching" Iit , Kharagpur Aug, 2018 To Sep , 2018. Nptel -8 Week Fdp On Radiative Heat Transfer" Iit , Roorkee From Jan,2019 To Mar,2019.
- Sri S. V. Gopala Krishna Has Been Certified With Nptel Online Course On "manufacturing Of Composites"  
\* Weeks Fdp From Aug-18 To Sep-18.
- Sri A. Srinivasa Rao Glimpses With Nptel Online Fdp Course On "introduction To Abrasive Machining And Finishing Processes" 8 Weeks From Aug-18 To Sep-18.
- Mrs.MNV. Alekhya got certified with NPTEL online FDP course on " DESIGN PRACTISE - II" from IIT -MADRAS from Aug-18 to Sep-18.
- Ms. K. V. Kalyani got certified with NPTEL online FDP course on " INTRODUCTION TO RESEARCH " from IIT- MADRAS from Aug-18 to Sep-18.



## Glimpses Of Our Department:-

- Our department glimpses with Sri. T.RamaKrishna has been presented his paper on "Effects Of Post Weld Heat Treatment on microstructure and mechanical behaviour of friction stir welded thick section Al-Zn-Mg-Cu alloy" Scopus indexed journal Lecture Notes in Mechanical Engineering.
- Our department glimpses with Sri S.V. Gopala Krishna has been presented his paper on "Mechanical characterstics of Al-Al<sub>2</sub>O<sub>3</sub>-SiC hybrid composites made by stir casting technique" JPCS proceedings.
- Our staff members Sri. A.Srinivasa Rao Published his paper on "Fabrication and Study of Drilling Parameters on Banana Pineapple Hybrid Natural fiber Reinforced Composites" in IJESI UGC Journal.
- Our staff member Sri. V.Naveen Kumar has been published his paper on "corrosion behaviour of AA7075- TiB<sub>2</sub> Nano composites" on IJESI - UGC Journal.



**THE END**