



News Letter

DEPARTMENT OF MECHANICAL ENGINEERING
SIR C R R COLLEGE OF ENGINEERING

VOLUME 12

APRIL' 2019

DEPARTMENT OF MECHANICAL ENGINEERING:

Department of Mechanical Engineering offers B.Tech program in Mechanical Engineering. The department also offers a postgraduate program in M.Tech (Machine Design).

VISION OF THE DEPARTMENT:

To be a center of excellence in the field of Mechanical Engineering in this region where the best of teaching, learning and research synergize with a broader sense of social responsibility. Engineering Department of Mechanical Engineering offers B.Tech program in Mechanical Engineering.

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, research oriented education Inculcating ethical values and responsibility.

From the HOD's Help Desk

It gives an Immense pleasure to release a semester newsletter of Mechanical Engineering Department for this academic year. Participation of Mechanical Engineering faculty in various training programs and International conferences was the most encouraging factor, which we want to continue in coming years also. Through periodic seminars, symposia, workshops, industrial visits and industrial training as integral parts of the course, the student were equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession. The mechanical engineering department is committed to create conducive atmosphere for the development of young brains into bright professionals of future. I believe, that in the years to come, armed with commitment and persue variance of faculty and staff, the department will continue to be the trend-setter in offering an array of curricular and co-curricular activities in order to achieve academic excellence

–Dr. K VENKATESWARA RAO



PRINCIPAL'S MESSAGE

I am pleased to know that the department of Mechanical Engineering is going to release new edition of its newsletter. This newsletter provides a panoramic view of the academic, research, co-curricular activities and achievements of the department during this academic year. To impart technical educational and training of exemplary academic standards to our students is our vision. The mechanical engineering department has a rich tradition of pursuing academic excellence and providing congenial environment for the overall personality development of its student. I feel confident that the department is progressing in the right direction and I congratulate the faculty and staff for their hard work and whole-hearted efforts to make the department the choicest destination for aspiring mechanical engineers.

–Dr. GUTTA SAMBASIVA RAO



EDITORIAL BOARD

Dr K VENKATESWARA RAO H.O.D

STAFF COORDINATORS:

DR K SUNIL RATNA KUMAR

Mr. T. RAMAKRISHNA

Mrs. CH LAKSHMI POORNIMA

STUDENT COORDINATORS:

JAGADEESH 4/4 MECH

B LAKSHMI NARASIMHA 3/4 MECH

B. TEJASRI 2/4 MECH

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.

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. Subrahamanyam | -----> | M.TECH |
| 14. Sri S. V. Gopala Krishna | -----> | M.TECH |
| 15. Mrs. Ch. Lakshmi Poornima | -----> | 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:-



I (Dr. K. Venkateswara Rao) Currently Working As A Hod And Professor In The Mechanical Engineering At Sir Crr College Of Engineering ,eluru. In Modern Society, The Role Of Mechanical Engineering Has Been Integrated With Various Disciplines. The World Is Transforming Towards Automation By The Concept Of Mechatronics To Meet Industry Requirements. Our Department Is Equipped With Advanced Skill-development Centers In Collaboration With Apssdc & Top Mnc Companies Like Siemens, Dassault Systems, Veljan, Arc Lab, Etc. We Are Exposing Our Students To Emerging Product Designs And Development In Various Sectors.

Labs:-

Dassault Systems Lab:-

- 36 Work Stations
- 36 Laptops
- Catia, Delmia, Simulia Are Included In One Software Dassaults 3d Experience Andhra Pradesh State Skill Development Centre, Siemens Provided This Lab
- ~ 3d Modeling
- ~ Manufacturing
- ~ Numerical Simulation




Veljan Lab: -

- Impart training on advanced Pneumatic Power Systems used in various industries and agricultural applications (FIRST OF ITS KIND IN INDIA).



Our Tech Fest:-





Sports Events Conducted By Our College:-
(In National Level)



Our Freshers Day Event:-





Student Achievements:-

- Talaparthi. Eawara Durga Prasad With Registered No. 315177120105 Has Got First Prize In Paper Presentation On Usha Rama College Of Engineering & Technology At Your Fest On 20th February 2019.

- Topic:- Virtual Manufacturing

- Manufacturing Is Central Activity That A Encompasses Product, Process And Plant. The Objective Is To Describe How Machines, Software And People Can Be Efficiently And Effectively Networked Together To Improve Productivity And Faster Innovation At All The Levels Of A Manufacturing Enterprise. The Focus Is On A Suitable Manufacturing Process For Achieving Final Product Shape By Providing The User The Option Of Designing The Appropriate Dies And Molds And Then Carrying Out The Analysis And



Student Achievements:-

- Ketha. Jaya Prakash With Registered No. 315177120125 Has Got 3rd Prize In Paper Presentation On Usha Rama College Of Engineering & Technology At Your Fest On 20th February 2019.
- Topic:- Tensile Studies On Al-zro² Particulate Composites
- Work Has Been Initiated To Fabricate Al-zro₂ Particulate Composites Through Stir Casting Technique. Composites With Varying Percentages Of Reinforcement's I.e 2, 4, 6 And 8% (with Particle Size) Were Fabricated With The Similar Procedure. Tensile And Hardness Studies Were Conducted On Standard Samples Using Tensometre And Rockwell Hardness Tester. Tensile Strength And Strains Were Recorded For Composites As Well As For Pure Al. Results Were Compared Among Composites And Also For Al.



Student Achievements:-

Danam. Avinash with registered no. 315177120023 has got first prize in paper presentation contest at Sasi Institute Of Engineering & Technology on 23rd February 2019.

EFFECT OF TOOL GEOMETRY AND CUTTING CONDITIONS ON SURFACE ROUGHNESS IN CNC TURNING.

This Paper Gives Effect Of Tool Geometry (all Types Of Tool Angles) and Cutting Condition Parameters (spindle Speed, Feed Rate And Depth Of Cut, Tool Overhanging Length And Work Over Hanging Length Etc.) On Surface Roughness In Cnc Turning. Manufacturing Facilities Are Under Constant Pressure To Be Highly Productive And Reliable To Cater The High Productivity, Precision Machining, High Surface Finish And High Repeatability Requirements. Selection Of Parameters To Achieve Optimal Performance Of Process Plays An Important Role In Reducing Cycle Times And Machining Costs. Turning Is The Most Common Metal Removal Operation Encountered. It Is Widely Used In A Variety Of Manufacturing Industries Including Aerospace And Automotive Sectors Where Quality Is An Important Factor.

Surface Roughness Is Closely Related With Spindle Speed, Feed Rate And Depth Of Cut, Type Of Equipment Etc. This Paper Also Gives Information About Effect Of Tool Angles On Surface Roughness. In This Experiment Taylor Hobson Talysurf Is Used To For Measuring The Surface Roughness.



Student Achievements:-

A. Jagadeesh With Registered No. 315177120094 Got First Prize Technical Quiz At Usha Rama College Of Engineering And Technology At Your Fest Conducted On 20th February 2019.

VIBRATION ANALYSIS

The Concept Of Maintenance, Through Condition Monitoring Of Industrial Plant And Machinery Is Gaining Momentum Ever Since Automation Over Took Conventional Machinery Condition Monitoring, An Emerging Field Through Vibration Analysis Is The Most Effective Tool In Tracking Down The Sources Of Fault And Predicting An Eventual Breakdown Of A Mechanical System. The Measurement And Analysis Of Vibration On Patterns Can Lead To Detection Of Abnormal Operating Conditions Well In Advance, Which Is Not Often The Case If The Parameters In Question Are Temperature, Oil Analysis Or Wear Debris Analysis Etc. Present Day Technological Developments And Sophistication In The Field Of Instrumentation Has Paved The Way For Predictive

Maintenance The Method Of Analysis Of Faults In The System And Requisite Remedies For Proper Maintenance Of The Plant Discussed In This Paper.



Student Achievements:-

- A. Jagadeesh With Registered No. 315177120094 Got First Prize Technical Quiz At Usha Rama College Of Engineering And Technology At Your Fest Conducted On 20th February 2019.

Student Placements:-

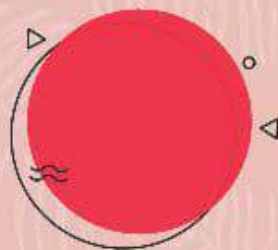
| ACADEMIC YEAR 2018-2019 (315) | | | |
|-------------------------------|--------------|--------------------------------|-------------------|
| S.NO | REGD.NO | NAME OF THE STUDENT | COMPANY |
| 1. | 315177120093 | Reddy Tanooj Kumar | Deepak nexgen |
| 2. | 315177120092 | Reddy Sravan Kumar | Deepak nexgen |
| 3. | 315177120066 | Mallanna Narasimha | Deepak nexgen |
| 4. | 315177120066 | M SIVA Naga Venkata | Deepak nexgen |
| 5. | 315177120085 | P. Manideep Kumar | Lokesh Machines |
| 6. | 315177120062 | M Hri Krishna Sai | WESTLINE SHIPPING |
| 7. | 315177120097 | Saridi Ajay Kumar | WESTLINE SHIPPING |
| 8. | 315177120105 | Talaparthi Eswara Durga Prasad | WESTLINE SHIPPING |
| 9. | 315177120056 | K Satyanarayana | INFOSYS |
| 10. | 315177120028 | G Devendra varma | Vem Technologies |
| 11. | 315177120120 | P.Jagadeesh | Vem Technologies |
| 12. | 315177120134 | D.Manoj | Vem Technologies |
| 13. | 315177120045 | K.Kumar Swamy | Lokesh Machines |
| 14. | 315177120047 | Karri.Basker Rao | Lokesh Machines |
| 15. | 315177120087 | P.sai | Lokesh Machines |
| 16. | 315177120091 | A.Prasanth | Lokesh Machines |
| 17. | 315177120114 | V.Kasi Reddy | Lokesh Machines |
| 18. | 315177120115 | V.V.prasad | Lokesh Machines |
| 19. | 315177120132 | B.Venkatesh | Lokesh Machines |
| 20. | 315177120137 | B.Peru Naidu | Lokesh Machines |
| 21. | 315177120138 | S.N.Durga prasad | Lokesh Machines |
| 22. | 315177120140 | N.Ganesh | Lokesh Machines |
| 23. | 315177120084 | Pandi Santhi Swaroop | VEE Technologies |
| 24. | 315177120048 | Karri Midhun Kumar | VEE Technologies |
| 25. | 315177120015 | Boni Tarun | WESTLINE SHIPPING |
| 26. | 315177120024 | Doddi Saikumar | WESTLINE SHIPPING |
| 27. | 315177120038 | G. Prem Sundar | WESTLINE SHIPPING |

Student Placements:-

| | | | |
|-----|--------------|-----------------------------------|---|
| 28. | 315177120044 | Kadimpalli Gautham Santhi Prakash | WESTLINE SHIPPING |
| 29. | 315177120122 | Kasina Aravindh | WESTLINE SHIPPING |
| 30. | 315177120061 | Maddu.Deepak Kumar | WESTLINE SHIPPING |
| 31. | 315177120126 | M.Sai Harsha Vardhan | WESTLINE SHIPPING |
| 32. | 315177120060 | M. Praneeth | WESTLINE SHIPPING |
| 33. | 315177120069 | M. Sumanth Raju | WESTLINE SHIPPING |
| 34. | 315177120071 | Medepalli Teja Bhanu | WESTLINE SHIPPING |
| 35. | 315177120076 | Muddada Ramana | WESTLINE SHIPPING |
| 36. | 315177120079 | Naramsetti Santosh Kumar | WESTLINE SHIPPING |
| 37. | 315177120141 | Podugu Venkata Sai Kumar | WESTLINE SHIPPING |
| 38. | 315177120102 | Simma Dilleswara Rao | WESTLINE SHIPPING |
| 39. | 315177120103 | Sita Hema Ratna Sai Kumar | WESTLINE SHIPPING |
| 40. | 315177120123 | Manepalli Phani Kumar | Deepak nexgen |
| 41. | 315177120116 | V Devi Venkata Vara Prasad | Lokesh Machines |
| 42. | 315177120133 | G Sai Babu | Deepak nexgen |
| 43. | 315177120082 | Palli. Raja Rao | Deepak nexgen |
| 44. | 315177120095 | S. Pavan kumar varma | Deepak nexgen |
| 45. | 315177120043 | K.V V S Harshavardhan Chowdary | 'Technical Support Engineer - Mechanical' "Skill-Lync |
| 46. | 315177120130 | K. Sai Kiran | Andhra Bank PO clerk |
| 47. | 315177120031 | Giduthuri Naresh | INNOVA solutions |
| 48. | 315177120055 | Kosuri Prasanth Kumar | Deepak Nexgen |
| 49. | 315177120051 | Kokkiripati Chandra Kanth | Deepak Nexgen |
| 50. | 315177120008 | Bagana Ajith Kumar | Cloud Mellow Techniologied |

Student Placements:-

| | | | |
|-----|--------------|------------------------------|----------------------------|
| 51. | 315177120016 | Bukke Ashok Kumar Naik | Cloud Mellow Techniologied |
| 52. | 315177120035 | Gorla Sowmya Susmitha | Cloud Mellow Techniologied |
| 53. | 315177120059 | Manne Rajani | Cloud Mellow Techniologied |
| 54. | 315177120127 | B. Mukesh | Cloud Mellow Techniologied |
| 55. | 315177120124 | K. Krishna Babu | Cloud Mellow Techniologied |
| 56. | 315177120125 | K. Jaya Prakash | Cloud Mellow Techniologied |
| 57. | 315177120049 | Kasi Sankar | Cloud Mellow Techniologied |
| 58. | 315177120063 | Mahankali Sai Harsha Vardhan | Deepak nexgen |
| 59. | 315177120010 | Benkili Pavan Kumar | Deepak nexgen |
| 60. | 315177120128 | Bandi Jairam | Deepak nexgen |
| 61. | 315177120117 | Yedla Ganesh | Deepak nexgen |
| 62. | 315177120144 | Senapathi Vasu Manikanta Sai | Deepak nexgen |



The End