Department of Mechanical Engineering VELAGAPUDI RAMA KRISHNA SIDDHARTHA ENGINEERING COLLEGE

Academic Year 2019-20



Issue -



Chief Editor Dr. A.V. Ratna Prasad Principal

Editor Dr. N. Vijaya Sai Prof. & Head, ME Dept.

Associate Editors Dr. G. Dillibabu M. Sumalatha K. Prakash Babu Student Co-ordinators U.HEMANTH KUMAR 3/4 ME K. JANARDHAN 3/4 ME S. YUVRAJ REDDY 3/4 ME

WORKSHOPS/SEMINARS/FDP/CONFERENCES ORGANISED

International Conference on Advances in Renowned Renewable Energy Technologies (ICARRET





The Department of Mechanical Engineering organized AICTE Sponsored International Conference on Advances in Renowned Renewable Energy Technologies (ICARRET) from 23/ 10/2019 to 24/10/2019.

Response for the Conference:

Total number of papers presented by researchers = 50

- * Participants are from Overseas-1, Maharashtra-3, Odisha-2, Telangana-10, assam-1, gujarat-1,kolkata-1,sikkim-2 and Andhra Pradesh-29 (Total -50)
- * Quality papers are also under the process for publication in International Journal of Recent Technology and Engineering (IJRTE), an ELSEVIER SCOPUS INDEXED and UGC recognized Journal

Keynote Speakers:

S No	Name of Speaker	Address/ Affiliation
1	Dr. Bale V. Reddy	Professor Dept. of Mechanical Engg., Ontario University Institute of Technology, Canada
2	Dr. K. Srinivas Reddy	Professor, Dept. of Mechanical Engineering, IIT Madras
3	Dr. Srikanth Narasimalu	Program Director (Renewables) & Senior Scientist Energy Research Institute, Nanyang Technological University, Singapore
4	Dr. Ramesh T Subramaniam	Professor, Department of Physics, University of Malaya, Malaysia
5	Dr. N. Rajalakshmi	Senior Scientist and Team leader, Centre for Fuel Cell Technology ARCI, IIT Madras Research Park
6	Dr. Sudhir Kumar	Former Jt. Director & Head, Centre for Solar Energy, World Institute of Sustainable Energy, Pune
7	Dr. Anirbid Sircar	Director General of Gujarat Energy Research and Management Institute(GERMI) Gandhinagar, Gujarat
8	Dr. Anand M Shivapuji	Senior Research Scientist, Centre for Sustainable Technologies, Dept. of Mechanical Engineering, IISC Bangalore

Outcome of the Conference:

This conference created new contacts with Indian and overseas experts in the field of Renewables. These contacts are useful to institute to strengthen interaction with Institutes of higher learning and Industry.

The participants, faculty and students are benefited from the conference in renewable energy areas (Solar energy, Wind energy, Wave and Tidal energy, Geo-thermal, Fuel cells and Biomass). They gained

- * Exposure, awareness and knowledge about the technological development in renewables. This is useful to choose and carry out research, submit proposals for funding, consultancy projects, B.Tech and M.Tech Projects in renewables.
- * Inputs to think about clean and green technologies to include few topics in curriculum development
- * Understanding infrastructure required for energy conversion
- * Gained good inputs by Interacting with industry experts and renowned speakers
- * Speakers concluded that renewable energy sources can address the current environmental problems such as Global warming, Climate change. Diversifying energy supply, reducing dependence on fossil fuels is solution to current problems across the globe in energy sector. The social, economic and environmental effects with renewable systems have been discussed in conference.

The innovation ideas from Industry experts and academy experts disseminated knowledge about the developments in renewable energy conversion technologies

FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

- 1) K. Siva Prasad, G. Chaitanya, "Analysis of delamination in drilling of GFRP composites using Taguchi Technique", Materials Today Proceedings, volume 8, part 7, November 2019, ISSN 2214-7853, PP 3252-3261. **Scopus Indexed.**
- 2) V.Sridhar, Ch. Ratnam, "wear behaviour on Magnesium reinforced with nano alumina particulates", International Journal Of Innovative technology and Exploring Engineering, vol 8, issue 11, septeber 2019, ISSN :2278-3075, PP 2873-2876. **Scopus Indexed.**
- B.Srinivasa rao, V.Balakrishna Murthy, "An Analysis of mode-I fracture in Carbon-Epoxy Laminate for the prediction of critical loads and crack lengths", International Journal Of Mechanical And Production Engineering Research and Development, Vol 9, Issue 4, pp 623-628, ISSN 2249-6890, August 2019, Scopus Indexed.
- 4) B.Srinivasa Rao, G.Sambasiva Rao, J.Suresh Kumar, "Buckling Anlysis of Thin FRP laminate under combined Thermal and Mechanical loading", International Journal Of Mechanical And Production Engineering Research and Development, Vol 9, Issue 4, pp 629-636, ISSN 2249-6890, August 2019, Scopus Indexed.
- 5) Mallapuram Bala Chennaiah, Podaralla Nanda Kumar and Karanam Prahlada Rao, "Effect of welding Parameter on Tensile Strength of AA7075-T₆ Friction Stir Weled Joints", Adavances in Additive Manufacturing and Joining , Lecture Notes on Multidisciplinary Industrial Engineering, Page No:641-649.(2020) , **Scopus Indexed**.
- 6) G.Santhnam, C.Srinivas, Ch.Khyathi Sree, S.Srinivas Prasad, "CFD Anlaysis of the effect of Mach number on Scramjet Combustion", International Journal Of Mechanical And Production Engineering Research and Development, Vol 9, Issue 4, pp 393-402, ISSN 2249-6890, August 2019, **Scopus Indexed.**
- 7) U. V. Narayana Rao, K. Srinivasa Rao, A. Dattatreya Kumar, G. Yaswanth Kumar, G. Sridhar Babu. "CFD Analysis of Auditorium using Ansys Fluent", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-2, July2019, Page no: 4533-45328, Scopus Indexed
- K. Srinivasa Rao, G Sridhar Babu, A. Dattareya Kumar, U V Narayana Rao and M. Rajesh, "Removal of Acid Blue 80 using Industrial Waste Carbon", International Journal of Recent Technology and Engineering(IJRTE), ISSN:2277-3878, Volume-8, Issue-2, July2019, Page no:1217-1224, Scopus Indexed
- 9) Lakshmi Srinivas Sastra Ummaleti, G. Jamuna Rani and K.Srinivas Rao, "Impact of Piston Geometry on Diesel Engine Performance, Emissions and Combustion", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-2, July2019, Page no: 3087-3091, Scopus Indexed.

- 10) Nilesh R, Kolhalkar and V. L.Krishnan, "Mechatroniocs System for diagnosis and treatment of major diseases in Grape Vineyards Based on Image processing", Materials Today Proceedings. ISSN: 2214-7853, September 2019, **Scopus Indexed**
- 11) K.Siva Prasad, G. Chaitanya, "Experimental study on surface roughness and dimensional accuracy of hole machining process GFRP Composites using abrasive water jet technique" Materials Today Proceedings. ISSN: 2214-7853, 2019, **Scopus Indexed**
- 12) Prakash Babu Kanakavalli, B.Navaneeth Babu and Ch.P.N.Vaishnu Sai, "A hybrid methodology for optimizing MIG welding process parameters in joining of dissimilar metals", Materials Today Proceedings. ISSN: 2214-7853. **Scopus Indexed**
- 13) V.Uma Sai Vara Prasad, K.Venkata Rao, M. Balaji and D.Brahmeswara Rao, "FEA investigation of Process effects on machining characteristics in helical milling", Materials Today Proceedings. ISSN: 2214-7853, **Scopus Indexed**
- 14) M. Ramagopal, K. Ramanaiah, M.Praveen and P.N.V.Bala Subramanyam, "Effect of double-shell mono- flow cooling system in hot working rollers", International Journal of Mechanical Engineering and Production Research and Development(IJMPERD), ISSN:2249-6890, Page no:158-165, Vol. 9 Dec 2019, Scopus Indexed
- 15) Alapati Venkateswarlu, Songala Ganesh and Adusumilli Adilakshmi, "The Design and Fabrication of solar Organic Rankine Cycle for Power Generation", International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2249-6890, Page no: 111-117, Vol. 9 Dec 2019, Scopus Indexed
- 16) G. Jamuna Rani, K.Srinivas Rao and Y.Goutham Raj, "Effect of Hydrogen Enrichment on the Performance and Emissions of a Diesel Enginefueled with Mahua- Biodiesel". International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2249-6890, Page no: 126-133, Vol. 9 Aug 2019, Scopus Indexed
- 17) G Dilli Babu, B. Jagadish Babu, K.Bintu Sumanth, "Experimental Investigation on Surface Roughness of Turned Nano-Khorasan Based Pineapple Leaf Fiber-Reinforced Polymer Composites Using Response Surface Methodology", Materials Today: Proceedings Engineering, Available in online from 29 September 2019, Scopus Index.
- 18) G Dilli Babu, S P Kumar Gudapati, K Sivaji Babu, V Ratna Prasad, "Experimental Investigation on Mechanical and Thermal Properties of Esculentus Cyperus Fiber Reinforced Polypropylene Composites", Materials Today: Proceedings Engineering, Available in online from 29 July 2019, Scopus Indexed
- 19) G Dilli Babu, B Jagadish Babu, K Sivaji Babu, "Optimization of Surface Roughness of Turned Nano-Khorasan Based Madar Fiber Composites Using Response Surface Methodology", International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2019, 8(10), pp 253-257, Scopus Indexed

- 20) K.Bintu Sumanth, G Dilli Babu, S.Satish Kumar, "Mechanical and Wear Characterization of Nano Based Calotropis Gigantea Fiber Reinforced Polyester Composites", International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2019, 8(10), pp 2876-2879, Scopus Indexed
- 21) Charitha Krishna P, Balakrishna Murthy V, Chandra Mohan R, "Analysis of Thermal Protection System in Flex Seal of a Rocket Motor", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November 2019, DOI: 10.35940/ijitee.A8117.119119, pp. 4933-4936. Scopus Indexed.
- 22) Vijaya Kanth P, Balakrishna Murthy V, Chandra Mohan R, "Simulation of Thermal Ablation Process using ANSYS Software", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November 2019, DOI: 10.35940/ijitee.A8119.119119, pp. 4941-4942. **Scopus Indexed.**
- 23) G.Sri Valli, Dr.Ravindra Kommineni and Dr.B.Sreedhara Rao. "A Literature Review on Corrugated Plate Heat Exchanger", Materials Today Proceedings 18 October (2019) ISSN: 2214-7853, Page No: 320-326 Scopus Indexed
- 24) Srinivas Prasad Sanaka and B.LV.S. Gupta, "Computational Analysis of External Flow on a Re-Entry Vehicle", International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2250-2378, Page no: 27-33, Vol. 9 Dec 2019, Scopus Indexed
- 25) CH. Khyathi Sree, Srinivas Prasad Sanaka and B.Raghava Rao, "Computational Analysis of Combustion in Scramjet Engine", International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2250-2378, Page no: 19-26, Vol. 9 Dec 2019, Scopus Indexed
- 26) N. Vijaya Kumar, B. Sai Krishna and N. Sai Chandrika, "Evaluation of properties of glassbanana-fiber reinforced hybrid fiber polymer composite", Materials Today: Proceedings, Volume 18, Part 6, 2019, Pages 2137-2141, 26 July 2019, ISSN: 2214-7853 Scopus Indexed
- 27) Bapi Raju Vangipurapu, Rambabu Govada, Narayana Rao Kandukuri, "Development Of A New Genetic Algorithm For Solving Capacitated Vehicle Routing Problem In Short Time", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-11, September 2019. Scopus indexed.
- 28) P. Satheesh Kumar Reddy, CH. Naga Raju "Structural optimization of different truss members using finite element analysis for minimum weight", International Journal Of Mechanical And Production Engineering Research And Development, Vol 9, Issue 4, pp 99-110 ISSN 2249-6890 August 2019. Scopus

- 29) K. Prakash Babu, V. Vijaya Babu, Medikondu NageswaraRao, "Scheduling of Machines and AGVs Simultaneously in FMS through Hybrid Teaching Learning Based Optimization Algorithm", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, volume-9, issue-2, December 2019.
- 30) K. Prakash Babu, V. Vijaya Babu, "Simultaneous Scheduling of Machines and AGVs in FMS Through Hybrid JAYA Algorithm", International journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume 9 issue 2, December 2019.

· INTERNATIONAL CONFERENCE:

- A. SriHari Prasad, V.Srinivsa Sai, K. Venkata Ramana, V. Bala Krishna Murthy, "Establishment of "Back-Track" method : A simpler approach to determine Fibre elastic properties, 4th international conference on Advances in materials and manufacturing Applications, held on 29th-31st august 2019, organized by department of mechanical engineering, Amritha Vswa vidya peetham, Banglore.
- L.Gowthami, T.Hari Krishna, "Failure Mode and Effect Analysis for CNC Machines ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 3) V.BapiRaju, "Development Inventory Model of price dependent perishable products in Carbon Cap Regulations", International Conference On "Computational and Experimental Methods for Advancing Engineering Systems Applications ", held on 23rd August 2019, at Vishnu Universal Learning.
- 4) V.Sambasiva Rao, Dr.A.Srinivasulu, "Experimental Investigation Of FDM Process for Testing of Tensile Strength ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 5) K.Raju, V.Sridhar, "Mechanical Performance of Nano-Copper Reinforced With Sic, AL₂O₃ Using Powder Metallurgy Process ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 6) V.Lakshmi Narayana, K.Ramanaiah, A.Praveen, "Performance and Emission Characteristics of Diesel Engine using Micro-Algae Biodiesel Blends with Aluminium Oxide Nano particles ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 7) Murari. Uma Ravindranath, Dr.C.Mahesh, "Simulation and Design Modification of Thermoacoustic Refrigerator ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).

- 8) Nagamani Ponala, **Dr.K.Nagamalleswara Rao**, "Design and Analysis of Solar Dryer for Processing of Food Waste", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 9) Mogili Amaraiah, Srinivas Prasad Sanaka "Experimental investigation of dual biodiesel by using VCR engine" at International Conference on Advances in Renowned Renewable Energy Technologies, held on 23rd & 24th October 2019, at Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada.
- 10) G.Srivalli, Dr. Srinivas Kommana, P.Gopinadh Chowdary, A.H. R.Madhuri, S.Satish Kumar "Optimization Of Injection Pressure And Compression Ratio Of VCR CI Engine Fueled With Waste Plastic Oil Blended With Diesel" at International Conference on Advances In Renowned Renewable Energy Technologies, held on 23rd & 24th October 2019, at Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada.
- 11) G. Jamuna Rani, P. Gopinadh Chowdary, A. Geethu Pravya, A. Sai Nandini, "Investigation Of Performance And Emissions Of Diesel Engine Fueled With Canola Biodiesel And Additives" at International Conference on Advances In Renowned Renewable Energy Technologies, held on 23rd & 24th October 2019, at Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada.
- 12) A. Phanideepthi, K. Ramanaiah, A.V. Ratna Prasad, K. Hemachandra Reddy, V. Lakshmi Narayana "Effect of Aluminium Oxide Nanoparticles On Emissions of Diesel Engine Using Micro-ALGAE Bio-Diesel" at International Conference on Advances in Renowned Renewable Energy Technologies, held on 23rd & 24th October 2019, at Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada.
- 13) Raviteja Chopparapu, Kartik Raju Sambattula, Dileep Kumar Edara, Raviteja Dasari, Vignesh Sycam, G. Srivalli and Mallapuram Bala Chennaiah, "A Review Article on Water Purification Techniques by using Fiber Composites and Biodegradable Polymers", International conference on Design Materials and Manufacture, held on 06th & 07th Dec 2019, at NIT Suratkal, Karnataka.
- 14) Raviteja Chopparapu, Dr. Mallapuram Bala Chennaiah, G. Srivalli, Kartik Raju Sambattula, Vignesh Sycam, Dileep Kumar Edara, Raviteja Dasari, "Biodegradable Polymer Filter Made from Fiber Composites for Addition of Minerals and Salts to Water" International conference on Processing and Characterization of Materials, held on 12th – 14th Dec 2019, at NIT Rurkela, Orissa.
- 15) V.Vasu, presented paper "Reduction of coefficient of friction by using NiO and CuO nano particuls as additive in Engine oil" at International conference on 08th & 09th Nov 2019, at Vignan University, Guntur District.

16) **Dr. M. Balaji**, presented paper "An Optimization Strategy to Reduce Surface Roughness, Flank wear and Tool Vibration in Micro Milling of Titanium Alloys" International Conference on 08th & 09th Nov 2019, at Vignan University, Guntur District.

WORKSHOPS /SEMINARS/FDP ATTENDED BY FACULT

- V.V.Venu Madhav attended a National Workshop on "Academic Excellence-Creating Climate through Communication" at IBS, ICFAI Business School, Vijayawada on 22nd July 2019.
- 2) M.Sumalatha attended a National Workshop on ""Recent Advances In Welding(RAW-2019) at Methodist College Of Engg And Technology, Hyderabad on 22nd July 2019.
- 3) M.Sumalatha, B.Supraja Reddy, A.N.Phani Deepthi attended a National Faculty Development Program on "Mechatronics & Automation" at Dhanekula Institute Of Engg & Technology, Vijayawada during 26th-28th Aug, 2019.
- 4) Dr C.Mahesh attended a National Faculty Development Program on "Design And Analysis of Experiments" at Gudlavalleru Engg College, Gudlavalleru on 30th Aug, 2019.
- Dr Ch.Naga Raju attended a National Faculty Development Program on "Mathamatical Modeling Of Manufacturing Processes" at AICTE, New Delhi during July-Oct(18days), 2019.
- 6) G.Srivalli, G.Jamuna Rani, A.N.Phani Deepthi, M.Sumalatha, B.Supraja Reddy has attended a National Workshop on "Research Practice, Presentation and Publication" at Department of Department of Civil Engineering, VRSEC, Vijayawada on 4th December 2019.
- 7) Ch.Venkata Prasad has attended a National Workshop on "Recent Advancement in Polymer Materials and Nano Materials for Engineering Applications (RAPNEA-2019)" at NIT, Raipur on 9th -13th Dec 2019 (5 Days).
- 8) Dr. Ch.Naga Raju has attended a Seminar on "Perspective and Challenges on Adopting the Curriculum for Engineering & Technology in India" at Vignan's Foundation for Science, Technology and Research, Vadlamudi, Guntur on 21st Dec 2019.

- 9) M.Sumalatha, A.N.Phani Deepthi, B.Supraja Reddy, M.Rajesh has attended a International Workshop on "Materials for Energy Conversion and Storage" at IIT, Tirupati on 24th-25th Dec, 2019 (2 Days).
- **10)** Dr B.Raghava Rao attended a National Short Term Course on "Molecular Gas Dynamics" at IIT, Kanpur during 20th-24th Jan, 2020.
- 11) Dr K.Naga Malleswara Rao and Dr M.Bala Chennaiah attended a National Faculty Development Program on "3Dexperience-System Engineering, Delmia& Simulia" at APSSDC, Pune during 23rd-25th Jan, 2020.

GUEST LECTURES DELIVERED BY FACULTY

1) "**Dr.V.Balakrishna Murthy**" delivered a Guest lecture on "Subject expert and evaluated the internal Research project proposals" at R.V.R. & J.C.College Of Engineering, Guntur on 21st Sep, 2019.



GUEST LECTURES ORGANISED

 Guest lecture on "Knowledge and Creativity" organized by The ASME and conducted in VR Siddhartha Engineering College, Mechanical Department on 4/07/19, Chief Guest& Speaker: Dr. Atul Sen, Scientist – G, Formal Director, Technology Management, Defence Research and Development Laboratory (DRDL), Kanchanbagh, Hyderabad.



 Guest lecture on "Second Law of Thermodynamics and its role in sustainability" & Advances in Mechanical Engineering" organized by the SAEINDIA and conducted in VR Siddhartha Engineering College, Mechanical Department on 17/07/2019, Speaker: Dr. B.V. Reddy, Professor in ME Department, university of Ontario, Canada.



3) Event on "Heal the World – Say No to Plastic (Ad zap, Elocution, Essay Writing, Slogan Writing & Poster Presentation)" organized by The institution of Engineers India students chapter, and conducted in VR Siddhartha Engineering College, Mechanical Department on 18/09/2019.



4) Guest lecture on "Underwater warfare Technologies" organized by Mechanical Engineering Department VR Siddhartha Engineering College, on 14th December 2019, Chief Guest& Speaker: Dr.O.R.Nandagopan, outstanding scientist and Director, Naval Science and Technologies Laboratory (NSTL) DRDO, Visakhapatnam.



5) Guest lecture on "Developing Indigenous Technologies based on Nano materials - Journey from Lab to Market" organized by Mechanical Engineering Department VR Siddhartha Engineering College, on 18th December 2019, Chief Guest& Speaker: Dr. Neha Yashwanta Hebalkar, scientist "E" International Advanced Research centre for powder metallurgy and new materials (ARCI), Hyderabad.

RESEARCH ACTIVITIES

Ph.D thesis submitted:

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SI.No	Name	Designation	University	Month & Year	Specialization
1	M. Sumalatha	Assistant Professor	AU,Visakhapatnam	July 2019	Manufacturing Process

• Guiding Ph.D:

SI.No	Name	Designation	Name of the scholar	University & Date of Registration
1.	Dr. AV Ratna Prasad	Professor	G.Pavan Kumar K.Ramanaiah G.Vijay Prakash P.Srinivasa Rao K.Rajesh	Annamalai University 2018 JNTUA 2009 ANU 2011 KLU 2012 JNTUH,2008(Completed)
2.	Dr. N.Vijaya Sai	Professor	A.Satyanarayana P.Nanda Kishore U.Hari Babu P.Kishore Kumar	JNTUH, 2009(Awarded) JNTUK, 2010 ANU 2011 JNTUK 2016
3.	Dr.N.RaviKumar	Professor	K.Ranga Rao (A L C) G.Prabhakar	AU 2013 JNTUK, 2015
4.	Dr. V. Bala Krishna Murthy	Professor	N.Vijeta S.Ram Babu Y.Sai Babu V.Venu Madhav V.Srinivasa Sai V.Mohan Manoj Gupta	JNTUK 2010 JNTU A, 2010 JNTU A 2010 JNTUH 2012 GITAM,2014(Awarded) JNTUK 2016
5.	Dr. C.Naga Raju	Professor	U.Koteswara Rao P S K Reddy V.Sudheer Kumar A,Shyam Prasad Ch.Rama Krishna K.Ravi Kumar	NITW, 2011 ANU, 2011 ANU, 2011 JNTUK, 2016 JNTUK, 2016 JNTUK 2013
6.	Dr.G.Dilli Babu	Associate Professor	K. Obulesu Tapela M.Sarath Babu	JNTU K, 2016 JJTU, Rajasthan,2015
7.	Dr.K. Naga Malleswara Rao	Associate Professor	M.Peeraiah	JNTU K, 2016
8.	Dr. V L Krishnan	Associate Professor	Kolhalkar Nilesh Ramesh	KLU 2016

• On going Research (doing Ph.D):

SI.No	Name	Designation	University	Month & Year of Registration	Specializatio n
1.	K.Ramanaiah	Sr.Asst. Professor	JNTU Anantapur	August 2009	Composites
2.	P.Sateesh Kumar Reddy	Sr.Asst. Professor	ANU Guntur	September 2011	Composites
3.	A.Mallikarjuna Rao	Sr.Asst. Professor	A U Vizag	July 2006	Robotics
4.	V.Sudheer Kumar	Assistant Professor	ANU Guntur	September 2011	Fault diagnostics

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5.	M.Ashok Chakravarthy	Assistant Professor	JNTU Kakinada	October 2010	CFD
6.	B.L.V.S.Gupta	Assistant Professor	JNTU Kakinada	October 2010	Thermal
7.	K.Ravi Kumar	Assistant Professor	JNTU Kakinada	August 2013	Heat Transfer
8.	K.Prakash Babu	Assistant Professor	A U Vizag	October 2010	Cellular Manufacturing
9.	B.Srinivasa Rao	Assistant Professor	JNTU Hyderabad	April 2012	FEM
10.	V.Sridhar	Assistant Professor	AU Vizag	March 2014	Nano Composites
11.	P.Nanda Kishore	Assistant Professor	JNTU Kakinada	November 2010	Polymer Composites
12.	V.Bapi Raju	Assistant Professor	AU Vizag	March 2014	Industrial Engg.
13.	K.Siva Prasad	Assistant Professor	ANU Guntur	February 2014	Machining of FRP
14.	V.Venu Madhav	Assistant Professor	JNTU Hyderabad	April 2012	Fracture Analysis
15.	B.Supraja Reddy	Assistant Professor	ANU Guntur	February 2014	Friction Stir Welding
16.	G.Jamuna Rani	Assistant Professor	JNTU Kakinada	July 2012	Alternatae Fuels
17.	M.Rajesh	Assistant Professor	KLU Vaddeswara m	January 2017	Alternate Fuels
18.	Ch.Venkata Prasad	Assistant Professor	JNTU Kakinada	August 2013	Machine Design
19.	G.Srivalli	Assistant Professor	ANU Guntur	July 2016	Heat Exchangers
20.	G.Sreedhara Babu	Assistant Professor	A U Vizag	April 2018	Analysis of Dolphin Robot in Aqua and Marine Fields
21.	G.Pavan Kumar	Assistant Professor	Annamalai University, Chennai	October 2019	Manufacturing
22.	A.N.phani Deepthi	Assistant Professor	Annamalai University, Chennai	October 2019	Automobile Engineering
23.	V.Vasu	Assistant Professor	NIT Warangal	December 2019	R & AC, Fuel Cell

S.No	Title of the Project	Funding Agency & Scheme	Amount in Lakhs (Rs),Year & Period	Start date	Name of PI/Coordinator & Co-Investigators
1.	Analysis and Fabrication of a Bracket of a space vehicle using FRP composite material	DRDO	8.9 Lakhs, 2017, 1 year	Jan 2017	Dr. Bala Krishna Murthy Dr. N. Vijaya Sai Mr. P. Satheesh Kumar Reddy Mr. V.V VenuMadhav Mr. P. Gopinath Chowdary Mr. N.Pardhasaradhi
2.	Center of Excellence in Composites	FIST-DST	40 Lakhs, 2014, 5 Years	November 2014	Dr. A. V. Ratna Prasad Dr. K. Mohana Rao Dr. K. Naga Malleswara Rao Mr.N.Vijay kumar, Mr.K.Ramanaiah
3.	Modernization of Metrology Laboratory under MODROB Scheme	MODROBS, AICTE, New Delhi	15.29 Lakhs, 2 Years	April 2019	Dr. N. Vijaya Sai Dr. G.Dilli Babu

Consultancy details:

S.no	Name of the consultant	Name of the consultancy project	Consulting/sponsoring agency with contact details	Revenue generated (in Rs.)
1	Dr.N.Vijay Kumar	Fabrication of R C components	M. Kalyan VKR ,VNB & AGK college of Engineering, Gudivada	5,045/-
2	Dr.N.Vijay Kumar	Composite Tensile & Impact test	P Ganesh R V R & JC , GUNTUR	2,124/-
3	Dr.N.Vijay Kumar	Tensile & Flexural test	K L S Lalithya Vishnu institute of technology, Bhimavaram	3,540/-
4	Dr.N.Vijay Kumar	Tensile& Flexural & Impact Testing of composites	N Jahnavi Chandrika DMS & SVH college of Engineering, Machilipatnam	4,956/-

STUDENT ACTIVITIES

INDUSTRIAL VISITS: SI.No Name Date Faculty Assisted Touring of the class Industry(ies) Place(s) POH 1 III/IV Central Rayanna 21-08-M.Ashok Chakravarthy B section Depot, S.C.Railway 2019 padu, V.Sudheer Kumar Vijayawada 2 III/IV POH R.V.Kiran Kumar Central Rayanna 22-08-Depot, S.C.Railway padu, 2019 N.Rajesh С section Vijayawada 3 III/IV Central POH 24-08-K.Siva Prasad Rayanna A section Depot, S.C.Railway padu, 2019 B. Supraja Reddy Vijayawada 4 II/IV 30-09-M.Sumalatha Pratap industries Enikepadu, V.Sridhar С vijayawada 2019 section 5 II/IV Pratap industries Enikepadu, 01-10-P.Satheesh A section vijayawada 2019 Reddy K.Ramanaiah 6 II/IV Pratap industries Enikepadu, 03-10-M.Rajesh G.Sridhar Babu B section vijayawada 2019

Kumar

STUDENT CO-CURRICULAR EXTRACURRICULAR ACTIVITIES:

S.No	No. of Students Participated	Event With Organiser Details	Prize Won
1	3	Automobile & IC Engine workshop, organized by IIT Hyderabad. 11 & 12 August 2019	Participated
2	2	Paper Presentation on MEC, Hybrid Electrical Vehicle, organized by Dhanekula Institute of Engineering and Technology, 20 & 21 December 2019	2 nd Prize
3	5	Engine Assembly Event, organized by Dhanekula Institute of Engineering and Technology, 20 & 21 December 2019	Participated
4	7	Lab View, organized by Dhanekula Institute of Engineering & Technology. 20 & 21 December 2019	Participated
5	1	Contraption, organized by Dhanekula Institute of Engineering and Technology. 20 & 21 December 2019	Participated
6	6	Medha Event, organized by L. B. R. C. E, Mylavaram, 21 December 2019	Participated(6members) 2 nd Prize(2members)

7	3	Paper Presentation, organized by L. B. R. C. E, Mylavaram, 21 December 2019	Participated
8	8	CAD Modelling ,organized by L. B. R. C. E, Mylavaram, 21 December 2019	Participated
9	2	Engine – X ,organized by L. B. R. C. E, Mylavaram, 21 December 2019	Participated
10	5	Yanthrora, L. B. R. C. E, Mylavaram 21 December 2019	Participated
11	4	Quiz competition on Technology Update on Automotive Industry ,organized by Mechanical Engineering Department, V. R. S. E. C, 12 December 2019	Participated
12	6	Bharatiya Vijnana Mandali, Yuva Vijnana Puraskara, organized by Acharya Nagarjuna University,Guntur 28 September 2019	Participated
13	1	Bharatiya Vijnana Mandali, State level, organized by SRK Institute of Technology, Vijayawada 14 December 2019	Participated
14	1	Bharatiya Vijnana Mandali, District level Quiz/poster Competition, Nellore 30 November 2019	Participated
15	3	World Space Week Organized by SDSC SHAR ISRO, organized by L. B. R. C. E, Mylavaram, 4 to 10 October 2019	1 st price

TRAINING & PLACEMENT

S.No	Name	Roll No	Company
1	Ameer	168W1A0304	TCS NINJA
2	Amrutha Chandaluri	168W1A0311	TCS NINJA
3	Chundru Amareesh	168W1A0314	TCS NINJA
4	Chaitanyasaikrishna Ganga	168W1A0318	TCS NINJA
5	Chaitanya	168W1A0319	TCS NINJA
6	Bhargav Sekhar	168W1A0328	TCS NINJA
7	Sai Durga Vivek	168W1A0363	TCS NINJA
8	Mogesh	168W1A0366	TCS NINJA
9	Ganesh	168W1A0368	TCS NINJA
10	Mounika Bhuvana Maheswari	168W1A0382	TCS NINJA

11	Waseem Akram	168W1A03B3	TCS NINJA
12	Ch.N.V.Suraj	168W1A03C6	TCS NINJA
13	Sri Chennuboyina	168W1A03C7	TCS NINJA
14	Mohammad Saleha	168W1A03G1	TCS NINJA
15	Jaya Mahesha Trivikram	168W1A03G9	TCS NINJA
16	Maniraj	168W1A03H6	TCS NINJA
17	Gangadhara Rao	178W5A0334	TCS NINJA
18	Kesava Narayana Rao	178W5A0319	HYUNDAI MOBIS
19	Basid	168W1A0301	GO-SPEEDY-GO
20	Bhanu Chandu	168W1A0305	GO-SPEEDY-GO
21	Jagadeesh Durga Naga Sai Kumar	168W1A0345	GO-SPEEDY-GO
22	Ameer Sohel	168W1A0347	GO-SPEEDY-GO
23	Mohan Ganesh Krishna	168W1A0349	GO-SPEEDY-GO
24	Vignesh	168W1A0350	GO-SPEEDY-GO
25	Sri Satya Sai Kanna	168W1A0374	GO-SPEEDY-GO
26	Metta Lokesh	168W1A0396	GO-SPEEDY-GO
27	Imran	168W1A0397	GO-SPEEDY-GO
28	Salman	168W1A03B2	GO-SPEEDY-GO
29	Lakshmi Nivetha	168W1A03F0	GO-SPEEDY-GO
30	Rahul	168W1A03H0	GO-SPEEDY-GO
31	Dharani Krishna	178W5A0306	GO-SPEEDY-GO
32	Mastan Ali	178W5A0309	GO-SPEEDY-GO
33	Manoj Kumar	178W5A0323	GO-SPEEDY-GO
34	Basid	168W1A0301	INSMARGO
35	Satyaa Nandini	168W1A0321	INSMARGO
36	Pruthviraju	168W1A0356	INSMARGO
37	Venkata Sai Krishna	168W1A0387	INSMARGO

38	Prabhas	168W1A0390	INSMARGO
39	Trinadh	168W1A0398	INSMARGO
40	Suresh	168W1A03A2	INSMARGO
41	Deepthireddy	168W1A03B9	INSMARGO
42	Venkata Sai Kamesh	168W1A03F2	INSMARGO
43	Pruthvi	178W5A0304	INSMARGO
44	Vijay Kumar	178W5A0315	INSMARGO
45	Manideep	178W5A0324	INSMARGO
46	N D Vara Prasad	168W1A03F3	FACE
47	K Durga Prasad	168W1A0329	FACE
48	ND Vara Prasad	168W1A03F3	JUST DIAL

PAPER PUBLICATION OF STUDENTS

International journal:

- Alapati Venkateswarlu, Songala Ganesh and Adusumilli Adilakshmi, "The Design and Fabrication of solar Organic Rankine Cycle for Power Generation", International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2249-6890, Page no: 111-117, Vol. 9 Dec 2019, Scopus Indexed.
- Vijaya Kanth P, Balakrishna Murthy V, Chandra Mohan R, "Simulation of Thermal Ablation Process using ANSYS Software", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November 2019, DOI: 10.35940/ijitee.A8119.119119, pp. 4941-4942. Scopus Indexed.
- CH. Khyathi Sree, Srinivas Prasad Sanaka and B.Raghava Rao, "Computational Analysis of Combustion in Scramjet Engine", International Journal of Mechanical Engineering and Production Research and Development (IJMPERD), ISSN: 2250-2378, Page no: 19-26, Vol. 9 Dec 2019, Scopus Indexed.

·INTERNATIONAL CONFERENCE:

- 4. **L.Gowthami**, T.Hari Krishna, "Failure Mode and Effect Analysis for CNC Machines ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore.
- V.Sambasiva Rao, Dr.A.Srinivasulu, "Experimental Investigation Of FDM Process for Testing of Tensile Strength ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).

- V.Lakshmi Narayana, K.Ramanaiah, A.Praveen, "Performance and Emission Characteristics of Diesel Engine using Micro-Algae Biodiesel Blends with Aluminium Oxide Nano particles ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- Murari.Uma Ravindranath, Dr.C.Mahesh, "Simulation and Design Modification of Thermoacoustic Refrigerator", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- Nagamani Ponala, Dr.K.nagamalleswara Rao, "Design and Analysis of Solar Dryer for Processing of Food Waste ", International Conference On Emerging Trends in Engineering Science and Technologies, held on 05th & 06th July 2019, at Narayana Engineering College, Nellore(AP).
- 9. G.Srivalli, Dr. Srinivas Kommana, P.Gopinadh Chowdary, A.H. R.Madhuri, S.Satish Kumar, "Optimization Of Injection Pressure And Compression Ratio Of VCR CI Engine Fueled With Waste Plastic Oil Blended With Diesel", International conference on advances in renowned renewable energy technologies (ICARRET-2019) October 23rd &24th,2019,Organized by department of Mechanical department, Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada, ISBN9788192329543, PP23.
- 10. G. Jamuna Rani, P. Gopinadh Chowdary, A. Geethu Pravya, A. Sai Nandini, "Investigation Of Performance And Emissions Of Diesel Engine Fueled With Canola Biodiesel And Additives", International conference on advances in renowned renewable energy technologies(ICARRET-2019) October 23rd &24th,2019,Organized by department of Mechanical department, Velagapudi Ramakrishna Siddhartha engineering college, Vijayawada, ISBN 9788192329543,PP 52.

ENGINEERS DAY CELEBRATIONS 2019

Students of 2/4 and 3/4 B.Tech Mechanical Engineering exhibited models in **ENGINEERS DAY** -2019 celebrations organised by department of Mechanical Engineering , V R Siddhartha Engineering College, Vijayawada. Faculty and students of various engineering colleges and schools were visited the department in large number.















DEPARTMENT OF MECHANICAL ENGINEERING V.R. SIDDHARTHA ENGINEERING COLLEGE Kanuru, Vijayawada - 520 007.