



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

**Department of Mechanical Engineering**



VELAGAPUDI RAMA KRISHNA

**SIDDHARTHA ENGINEERING COLLEGE**



Academic Year 2018-19

Issue - II

DEPARTMENT NEWS LETTER  
**DEPARTMENT NEWS LETTER**  
 DEPARTMENT NEWS LETTER



*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*  
 K. Harishith, 3 / 4 ME  
 L. Sampath Kumar, 3 / 4 ME  
 J. Karthik, 3 / 4 ME

## WORKSHOPS/SEMINARS/FDP/CONFERENCES ORGANISED

### INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MATERIALS, MANUFACTURING AND ENERGY SYSTEMS (ICRAMMES)

- \* Mechanical Engineering Department, V R Siddhartha Engineering College, Vijayawada was organized an International Conference on Recent Advances in Materials, Manufacturing and Energy Systems (ICRAMMES), during 3<sup>rd</sup> -4<sup>th</sup> January 2019.
- \* The conference is primarily aimed at providing a common platform for Academicians, Industry Personnel and Research Scholars to discuss about various aspects related to Materials, Manufacturing, Energy systems, Machine Design, Industrial Engineering and allied areas.
- \* Smart Materials, Finite Element Analysis, Multibody Dynamics, Condition Monitoring, Tribology, Virtual Prototyping/ 3D Printing, Micro Manufacturing, Renewable Energy/ Fuel Cell, Computational fluid dynamics, Aerodynamics, Supply Chain Management, Artificial Neural Network/ Fuzzy Logic System in Optimization Techniques are the most prominent research topics of the conference.



ICRAMMES is brought together more than 250 delegates from India and abroad.

Eminent personalities are delivered key note lectures on topics in the frontier areas of Mechanical Engineering, during the conference. Dr.G.Padmanabham, Director, ARCI, Hyderabad graced the function as Chief Guest. Speaking on the occasion, he highlighted the recent

advancements in ARCI and research scopes in the area of materials and energy systems.



## AFOSEC 2019

Department of Mechanical Engineering organized different events like Paper Presentation, Poster Presentation, Technical Quiz, 2D-Drafting (AutoCAD), Screw it, Junkyard wars, Robo-race, Robo- buzz(soccer), Robo-war, Thrust Rocket, JAM (Just a Minute) and Mousetrap racer at Annual Fest of Siddhartha Engineering College – 2019 (AFOSEC-2019). Students of various engineering colleges participated in large number.



- \* Dr. Prasad K D V Yarlaga, Professor, Queensland University of Technology, Brisbane, Australia is an expert in the field of Smart Materials/ Nanomaterials and Bio-Medical applications. He provided exposure regarding the cutting-edge research being carried out worldwide through his keynote address on “Proliferation of Smart Materials in Bio-Medical applications: Scope and challenges”.
- \* Dr. Bale V Reddy, Professor, University of Ontario Institute of Technology, Canada delivered key note address on “Roadmap to build Advanced and Sustainable Energy Systems”.
- \* Dr. Amaresh Chakrabarti, Senior Professor & Chairman, Center for Product Design & Manufacturing (CPDM), Indian Institute Of Science, Bangalore. He co-initiated the India’s first Smart Factory Lab. He also heads IISc-TCS Innovation Lab, IISc Press, and Springer International Book Series on Design Science & Innovation. He delivered a key note address on “Artificial Intelligence in Design and Design Computing & Cognition”.
- \* Dr. A. Seshadri Sekhar, Professor, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, India. His areas of research interest include rotor dynamics, condition monitoring and vibrations. He delivered a keynote address on “Fault diagnosis and Condition Monitoring practices in 21<sup>st</sup> Century”.
- \* Dr. Manoj Gupta is an Associate Professor in the Department of Mechanical Engineering, National University of Singapore, Singapore. His current research interests include processing, microstructure and properties evaluation of advanced structural materials for multiple engineering and biomedical applications. He delivered a keynote lecture on “Insight into Designing Biocompatible Magnesium Alloys and Composites”.
- \* All accepted papers published in the following Scopus indexed journals.
  1. Materials Today Proceedings (Elsevier).



2. International Journal of Innovative Technology and Exploring Engineering (IJITEE).
3. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD).
- \* Senior academicians like Dr P. N. Rao, Professor, University of Northern Iowa, USA; Dr N. Ramesh Babu, Professor, Indian Institute of Technology Madras, Chennai, India; and several other eminent professors from IITs & NITs viz. Dr. M Ramgopal (IIT-KGP), Dr. D R Prasad Raju (R & D Advisor, IIT-M), Dr. D Ravi Kumar (IIT-D) etc. are provided their services on the advisory and editorial board of the conference.
  - \* Energy Efficiency Services Limited (a Joint Venture of PSUs under Ministry of Power) is acted as the co-partner of the conference.
  - \* Almost more than 300 institutions belonging to academia, industry and research organizations are participated in the conference.

Chief Patron:

Sri N. Venkateswarlu, President, SAGTE, Vijayawada

Patrons:

Sri P. Lakshmana Rao, Secretary, SAGTE, Vijayawada

Sri M. Rajaiah Vice-President, SAGTE, Convenor, VRSEC, Vijayawada

Conference Chair:

Dr. A.V. Ratna Prasad, Principal, VRSEC

Organizing Chair:

Dr. N. Vijaya Sai, Professor & Head, Mechanical Engineering Department, VRSEC

Dr. K. Nagamalleswara Rao, Asso. Professor, Mechanical Engineering Dept., VRSEC

Co-Ordinator:

Dr. M. Balaji, Asso. Professor, Mechanical Engineering Department, VRSEC

## TRAINING & PLACEMENT

Sl.No:	Name of the student	Roll No.	Name of the company
1.	CHAVALA YAMINI SAI PRIYANKA	168W5A0302	Huyndai
2.	Galla.Varshitha	158W1A0316	Huyndai
3.	SOMA SUNDARA DHARANENDRA	158W1A0386	SEYOON
4.	MADDURI LAKSHMI AMARENDRA	158W1A03E8	JSW CEMENT
5.	P S L V S T SANGHAVI	168W5A0338	JSW CEMENT
6.	P S L V S T SANGHAVI	168W5A0338	RAP
7.	KURAPATI HEMANTH KUMAR	158W1A0388	RAP
8.	MUDUNURI MAHESH VARMA	158W1A0392	COGNIZANT
9.	KONAKALLA NILIMA KRISHNA	158W1A0322	VEE TECHNOLOGIES
10.	NUTHAKKI NAVEEN SAI	158W1A0337	VEE TECHNOLOGIES
11.	GUDAVALLI DUNDI DHEERAJ	158W1A0374	VEE TECHNOLOGIES
12.	VADLAMUDI SHIVA NAGA YASHWANTH	158W1A0355	VEE TECHNOLOGIES
13.	GHANTASALA MANASA	168W5A0317	VEE TECHNOLOGIES
14.	VADLAMUDI SHIVA NAGA YASHWANTH	158W1A0355	RAAM GROUP
15.	PAVAN NAGA VISHNU SAI	158W1A03C7	RAAM GROUP
16.	MANGAMURI DHARMA SAI AAKARSH	158W1A0327	TIDE Techologies
17.	BOMMIDI VENU DEEP	158W1A03C1	Everglade
18.	POLUKONDA GNANDEV	168W5A0323	Everglade
19.	P VISWANADHAM	168W5A0337	TVS Ramsys
20.	J V VENKATA SAI YASHWANTH	158W1A0378	TVS Ramsys
21.	GANESH BANDARU	158W1A0359	TCS
22.	HIMAJA KONDURI	158w1A0384	TCS
23.	MANI BALA MUVVALA	158W1A03F3	TCS
24.	KHUSHTAR MD	158w1a0391	TCS
25.	MANOJ KALYAN PANCHAGNULA	158W1A03F7	TCS
26.	SAI KATHIROJU	158W1A03D6	TCS
27.	PRERAN KURAPATI	158W1A0387	TCS
28.	ROHIT MARREDDY	158W1A0331	TCS
29.	VASANTHA AKKALA	158W1A03G8	TCS
30.	S S VENKATA KRISHNA VAMSI	158W1A0320	GO SPEEDY GO
31.	V.BHARAT	158W1A0348	GO SPEEDY GO
32.	INTURI LOHIT	158W1A0377	GO SPEEDY GO
33.	KURUVETI SAI KRISHNA SATHWIK	158W1A0389	GO SPEEDY GO
34.	BHUKYA GULAB SINGH	168W5A0315	GO SPEEDY GO
35.	YARAM PARDHU	168W5A0328	GO SPEEDY GO
36.	BOBBILI VENKATESH	168W5A0329	GO SPEEDY GO

Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 121.

6. **S.Subhani**, Srinivas Kommana “optimization of compression ratio of computerized vcr ci engine fueled with peanut oil blended with diesel and additive with egr”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3rd-4th January 2019, ISBN 978-81-933256-6-7, PP 73.
7. **S.Subhani**, Srinivas Kommana, Raghavarao Boppudi “optimization of compression ratio of computerized vcr ci engine fueled with peanut oil blended with diesel and additive”, International Conference On Applied Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 113.
8. **Y.Emima**, Rajesh.M “Experimental investigation on performance and exhaust emission characteristics of diesel engine using different sesame oil blends with additive”, International Conference On Applied Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 123.
9. **B.Ajay Kumar**, Dr.N.Ravi Kumar, Dr.V.Rama Krishna “Strain measurement of under water vehicle by experimental and numerical approaches”, International Conference On Applied Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 110.
10. **B.Ajay Kumar**, Dr.N.Ravi Kumar, Dr.V.Rama Krishna, Dr.O.R.Nandagopan, U.urban Kumar “Coupled analysis of underwater system by numerical approach”, International Conference On Applied Mechanical Engineering Research, held at NIT Warangal, India on 2nd -5th May 2019.
11. N.Vijaya Kumar, **B.Sai Krishna**, N.Sai Chandrika, “Evaluation of Properties of Glass-Banana fibre Reinforced polymer hybrid composite”, International Conference On Applied Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 115.
12. **R.Vineetha**, G.Srivalli, “Performance Enhancement of The Radiator with Different Fluids”, International Conference On Applied Science And Technology, held on 27th & 28th March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9.
13. V.Sridhar, **K.Raja**, “ Comparison of Vibrational Behavior of PET & amp; NYLON66 Core Based Sandwich Beams” International conference on Multi- Disciplinary Research Studies and Education (ICMDRSE-19), Organized by Institute For Engineering Research and Publication on 28th -29th June 2019 at Hyderabad, India.

## FACULTY PUBLICATIONS

### INTERNATIONAL JOURNALS

- 1) **M.Sumalatha, V.V.S.Kesava Rao** “A review on corrosion studies of titanium alloys”, Journal of Mechanical and Mechanical Engineering. Vol 5, Issue 1, 2019, pp.9-16 ISSN 2581-3722.
- 2) **M.Sumalatha, V.V.S.Kesava Rao** “Multi-objective optimization of weld bead geometry of micro-plasma arc welded titanium (Ti-6Al-4V) alloy sheets using TOPSIS”, International Journal of Manufacturing and Materials Processing. Vol 5, Issue1, 2019, pp. 27-38 ISSN
- 3) **K.Srinivasa Rao, U.V.Naayana Rao, G.Sridhar Babu and M.Rajesh** “Modelling and analysis of rotor braking system”, International Journal Of Mechanical Engineering And Technology. Vol 10, Issue 04, April 2019, pp.322-331 ISSN 0976-6359. **SCOPUS INDEXED**
- 4) **V.V.Venu Madhav, A.V.S.S.K.S.Gupta, P.Rakesh** “Study of fracture behaviour of a composite laminate [0<sup>0</sup>/90<sup>0</sup>] with circular crank subjected to temperature fall loading”, Journal of Mechanical and Civil Engineering. Vol 16, Issue 3 ser. (May-June 2019), pp 30-37 ISSN 2278-1684.
- 5) **V.V.Venu Madhav, A.V.S.S.K.S.Gupta, P.Rakesh** “Study of fracture behavior of a composite laminate [0<sup>0</sup>/90<sup>0</sup>] with circular crank subjected to Thermo-Mechanical loading with temperature fall”, Journal of Mechanical and Civil Engineering. Vol 16, Issue 3 ser. (May-June 2019), pp 38-45 ISSN 2278-1684.
- 6) G.V.N.B.Prabhakar, **N.Ravi kumar, Y.V.R.S.N.Pavan Kumar, P.Dileep Kumar, B.Prasanna Kumar, M.Gopi Raju, SK.Naseema, M.Jagannatham, B.Ratna Sunil.** “Producing Al5083-CNT composites by friction stir processing: influence of grain refinement and CNT on mechanical and corrosion properties”, Materials Today Proceedings, Vol 15 2019, pp 44-49, ISSN 2214-7853. **Scopus**
- 7) **K.Srinivasa Rao, P.Gopinadh Chowdary, G.jamuna Rani, G.SriValli**, “Performance and Emission Characteristics of a TurboCharged SI Engine using Petrol-Ethanol fuel”, International Journal Of Mechanical And Production Engineering Research And Development, Vol 9, Issue 3, pp 463-470, ISSN 2249-6890 June 2019. **SCOPUS**
- 8) Yarram Emima, **Muthuluru Rajesh, Kuchipudi Srinivasa Rao**, “Experimental Investigation on performance and Exhaust Emission characteristics of Diesel Engine using Eesame blends with Diesel and Additive”, International Journal Of Recent Technology And Engineering, Vol 8, Issue IS3, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED.**
- 9) Subhani Shaik, **Srinivas kommana, Raghavarao Boppudi**, “Optimization of Compression Ratio for Computerized VCR CI Engine Fueled with peanut oil Blended with Diesel and Additive”, International Journal Of Recent Technology And Engineering, Vol 8, Issue IS3, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED.**
- 10) **G.Dilli Babu, D.Siva Sankar, K.Sivaji babu**, “Experiment on Optimization of Robot Wleding process Parameters”, International Journal Of Recent Technology And Engineering, Vol 8, Issue IS4, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED.**

- 11) **Prakash Babu Kanakavalli**, Vijaya Babu Vommi, Nageswara Rao Medikonda, "Integration of machines and automated guided vehicles scheduling in flexible manufacturing system through JAYA algorithm", Recent Trends In System Engineering, Vol 8, pp 139-152, April 2019, **SCI**.
- 12) **Srinivas kommana, B.Raghava Rao, N.Ravi Kumar**, "Analysis of performance and emission parameters of methyl esters of coconut oil and eucalyptus oil blends in VCR-CI Engine", International Journal Of Mechanical And Production Engineering Research and Development, Vol 9, Issue 3, pp 681-686, ISSN 2249-6890, June 2019, **SCOPUS INDEXED**.
- 13) **A.N. PhaniDeepthi**, Mekuri Dharmiah, "Experimental Investigation on Improving the Cooling Performance of Automobile Radiator by Using CuO Nanofluid", International Journal On Mechanical Engineering and Technology, IJMET Vol10, Issue 05, May 2019, pp. 538-545.
- 14) **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 , June 2019, ISSN 2214-7853. **SCOPUS INDEXED**.
- 15) **V.V. Venu Madhav**, A.V.S.S.K.S.Gupta, P.Rakesh "Study of fracture behaviour of composite laminate with central circular crack exposed to Thermo-Mechanical loading with temperature rise", Journal Of Mechanical Engineering Research & Developments. pp 125-132 ISSN 1024-1752. **SCOPUS INDEXED**
- 16) **P.Satheesh Kumar Reddy, CH.NagaRaju** "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 INDEXED**.

#### INTERNATIONAL CONFERENCES

1. **V.V. Venu Madhav**, A.V.S.S.K.S.Gupta, P.Rakesh, "Study of fracture behaviour of a composite laminate with central circular hole subjected to temperature fall loading", International Conference On Advances In Material And Manufacturing Engineering 2019, Organized by Kalinga Institute Of Industrial Technology, during 15<sup>th</sup>-17<sup>th</sup> March 2019.PP49
2. **Vemuloori Vasu**, Donthu Rakesh, **K.Bintu Sumanth**, V.Uma Sai Vara Prasad, "Experimental investigation on low pressure receiver incorporated domestic refrigerator with Al<sub>2</sub>O<sub>3</sub> Nano particles", International Conference On Advances In Material And Manufacturing Engineering 2019, Organized by Kalinga Institute Of Industrial Technology, during 15<sup>th</sup>-17<sup>th</sup> March 2019.PP 67
3. **B.Supraja Reddy**, B.Ram Gopal Reddy, "Experimental investigation on friction stir welding of dissimilar alloys AA7075 and pure copper: Effect of tool material and process parameters on mechanical properties", International Conference On Advances In Material And Manufacturing Engineering 2019, Organized by Kalinga Institute Of Industrial Technology, during 15<sup>th</sup>-17<sup>th</sup> March 2019.PP105
4. **G.Sri Valli, G.Jamuna Rani, V.Balkrishna Murthy**, "Effect of Debond and Randomness on thermal Conductivities of Hollow Fiber Composites", International Conference On

#### PAPER PUBLICATIONS OF STUDENTS

##### International journals

1. **Yarram Emima**, Muthuluru Rajesh, Kuchipudi Srinivasa Rao, "Experimental Investigation on performance and Exhaust Emission characteristics of Diesel Engine using Eesame blends with Diesel and Additive", International Journal Of Recent Technology And Engineering, Vol 8, Issue IS3, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED**.
2. **Subhani Shaik**, Srinivas kommana, Raghavarao Boppudi, "Optimization of Compression Ratio for Computerized VCR CI Engine Fueled with peanut oil Blended with Diesel and Additive", International Journal Of Recent Technology And Engineering, Vol 8, Issue IS3, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED**.
3. G.Dilli Babu, **D.Siva Sankar**, K.Sivaji babu, "Experiment on Optimization of Robot Wleding process Parameters", International Journal Of Recent Technology And Engineering, Vol 8, Issue IS4, pp 6-11, ISSN 2277-3878, June 2019, **SCOPUS INDEXED**

##### International Conference:

1. K. Prakash Babu, B. Navaneeth Babu, **Ch. P.N. Vishnu Sai** "A Hybrid Methodology For Optimizing Mig Welding Process Parameters In Joining Of Dissimilar Metal", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3rd-4th January 2019, ISBN 978-81-933256-6-7, PP 64.
2. **Ch. Khyathi Sree**, Srinivas Prasad Sanaka, B. Raghava Rao, "Combustion Analysis in a Scramjet Engine using Fluent", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3rd-4th January 2019, ISBN 978-81-933256-6-7, PP 101.
3. **Anil Siva Teja M**, Balakrishna Murthy V, Chandra Mohan R "Simulation of Static Behaviour of Composite Pressure Vessel in Ansys Software", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3rd-4th January 2019, ISBN 978-81-933256-6-7, PP 120.
4. **S.Ganesh, A.** Venkateswarlu, "Design And Fabrication Of Solar Organic Rankine Cycle For Power Generation", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3rd-4th January 2019, ISBN 978-81-933256-6-7, PP 99.
5. **U.L.Srinivas Sastra**, G.Jamuna Rani "Impact Of Piston Geometry On Diesel Engine Performance, Emissions & combustion chamber", International Conference On Applied

27.	22 <sup>nd</sup> February 2019	1	Nityanjali, Elan and Nvision 2019 The National Techno Cultural Festival	IIT, Hyderabad	National Level	Participated
28.	14th-15th February 2019	1	sVISTA-2k19 two day National Techno Cultural Festival	Sri Vahini institute of Science and Technology, Tiruvuru	National Level	Participated
29.	5 <sup>th</sup> - 7 <sup>th</sup> December 2019	12	GORA Science EXHIBITION	Atheist Center, Vijayawada	National Level	Participated

### STUDENTS INDUSTRIAL VISITS

S.No	Touring class	Name of the Industry	Place(s)	Date	Faculty Assisted
1.	II/IV B.Tech A section	Kusalava International	Adivinekkalam vijayawada	19/02/2019	K.Siva prasad V.Vasu
2.	II/IV B.Tech B section	Kusalava International	Adivinekkalam vijayawada	20/02/2019	V.Sudheer Kumar G.SriValli
3.	II/IV B.Tech A section	Kusalava International	Adivinekkalam vijayawada	21/02/2019	M.BalaChennaiaha Supraja Reddy
4.	III/IV B.Tech C section	KCP Sugars pvt. Ltd	Vuyyuru	26/02/2019	G.SridharBabu G.JamunaRani
5.	III/IV B.Tech A section	KCP Sugars pvt. Ltd	Vuyyuru	28/02/2019	K.Srinivasa Rao A.Phanideepthi
6.	II/IV B.Tech B section	KCP Sugars pvt. Ltd	Vuyyuru	01/03/2019	A.SrinivasuluL V Sridhar

Advances In Material And Manufacturing Engineering 2019, Organized By Kalinga Institute Of Industrial Technology, During 15<sup>th</sup>-17<sup>th</sup> March 2019.PP117

5. **Dr. N. Vijaya Sai**, P. Kishore Kumar, A. Gopala Krishna, N.G. Renganathan “Micro-structural Evaluation of Mechanically Alloyed Oxide Dispersion Strengthened Austenitic Stainless Steels”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
6. **Dr. N. Vijaya Sai**, Upputuri Hari Babu “Optimization of Drilling Process Parameters used in Machining of Glass Fiber Reinforced Epoxy Composite”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
7. **Dr. N. Vijaya Sai**, Upputuri Hari Babu, Elayaraja Duraisamy “Optimization of Drilling Parameters on Carbon Fiber Reinforced Polymer Composites using Fuzzy Logic”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
8. **Dr. K. Naga Malleswara Rao**, Praveen Kumar.Ch, Raghu.M, **Satish Kumar.S** “Thermodynamic Analysis of a Solar Libr-H2O Absorption Refrigeration System”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
9. **Dr. K. Naga Malleswara Rao**, Raghu.M, Praveen Kumar.Ch, **Satish Kumar.S** “Thermodynamic Analysis of Solar Organic Rankine Cycle”, International Conference On Recent Advances In Materials Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
10. **Dr. K. Naga Malleswara Rao**, Peeraiah. M, Balakrishna.B “Upgrading the Cooling Performance of Radiator by the Dual Effect”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
11. **Dr. M.Balaji, M.Ashok Chakravarthy, V.Sridhar**, V.Uma Sai Vara Prasad “Multi response optimization of process parameters in turning of AISI D2 Steel”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
12. **V.Sudheer Kumar, P.Sateesh Kumar Reddy, Ch. Nagaraju**, K.Venkata Rao “Consequence of input parameters on amplitude and frequency of vibration in rotor bearing system”, International Conference On Recent Advances In Materials,

Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.

13. **Dr.G. Dilli Babu**, “Review Paper On Optimization Of Robot Welding Process Parameters”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
14. **G.Jamuna Rani, K. Srinivasa Rao, Y. Goutham Raj** “Effect of Hydrogen Enrichment on the Performance and Emissions of a Diesel Engine Fueled with Mahua – Biodiesel”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019. ISBN:978-81-933256-6-7, pg 105.
15. **K. Prakash Babu**, B. Navaneeth Babu, Ch. P.N. Vishnu Sai “A Hybrid Methodology For Optimizing Mig Welding Process Parameters In Joining Of Dissimilar Metal”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
16. Ch. Khyathi Sree, **Srinivas Prasad Sanaka, B. Raghava Rao**, “Combustion Analysis in a Scramjet Engine using Fluent”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> JANUARY 2019.
17. **Dr.S. Srinivasa Prasad, Blvs Gupta** “Computational Analysis of External Flow on a Re-Entry Vehicle”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
18. **Dr. G. Dilli Babu, S. P. Kumar Gudapati, A. V. Ratna Prasad** and K. Sivaji Babu “Experimental Investigation on Mechanical and Thermal Properties of Esculentus Cyperus Fiber Reinforced Polypropylene Composites”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
19. **K.Ramanaiah**, M. Ramgopal, M. Praveen, P.N.V. Bala Subramanyam “Effect of Double – Shell Mono-Flow Cooling System in Hot Working Rollers”, International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
20. **Dr. M. Balaji**, V Uma Sai Vara Prasad, Dr K Venkata Rao, D. Brahmeswara Rao “Investigation of Process Parameters Effect on Machining Characteristics in Helical Milling”, International Conference On Recent Advances In Materials, Manufacturing And

12.	15 <sup>th</sup> to 17 <sup>th</sup> February 2019	63	TECKZITE19 ,A National Techno Cultural Festival	RGUKT NUZIVID	National Level	Participated
13.	8 <sup>th</sup> February 2019	89	SITARA 2K 19 , A National level Design workshop	PVPSIT	National workshop	Participated
14.	14 <sup>th</sup> January 2019	4	POWER2IDEA BUSSINESS PLAN COMPETITION SHAASTRA 2018	IITM	National Level	Participated
15.	8 <sup>th</sup> to 9 <sup>th</sup> March 2019	3	SUNRISE 2K19 A National Techno Cultural Festival	NRI Institute of Technology	National Level	Participated
16.	4 <sup>th</sup> January 2019	13	A two day National Techno Cultural Festival	Usharama College of Engineering and Technology	National Level	1 <sup>st</sup> and 2 <sup>nd</sup> price in technical quiz 1 <sup>st</sup> price in PPT
17.	18 <sup>th</sup> -20 <sup>th</sup> January 2019	2	ESummit 19	IIT BHUBANESWAR	National Level	Participated
18.	2 <sup>nd</sup> January 2019	1	SCIENTIA-2019 A State Level Techno Meet	Andhra Loyola College Vijayawada	National Level	Participated
19.	22 <sup>nd</sup> and 23 <sup>rd</sup> february 2019	16	WING FO TECH conducted by ELAN AND NVISION 2019 annual technical cum cultural fest	IIT Hyderabad	National Level	Participated
20.	18 <sup>th</sup> to 20 <sup>th</sup> January 2019	36	KSHITIJ 2019 A National level Symposium	IIT kharagapur	National Level	Participated
21.	27 <sup>th</sup> -28 <sup>th</sup> February 2019	2	TECHNO RK 2k19	RK College of Engineering	National Level	Participated
22.	20 <sup>th</sup> February 2019	1	Metamorphosis	VIKASA VARADHI	National Level	Participated
23.	18 <sup>th</sup> February 2019	1	NATION WITH NAMO	under nation with namo	National Level	Participated
24.	8 <sup>th</sup> February 2019	2	PADMA AWARDS	under my gov mera sarkar	National Level	Participated
25.	23 <sup>rd</sup> to 26 <sup>th</sup> February 2019	14	National level Industrial skill developing Training Company	Goodwin motors, Chennai. MSME,Nsim	National Level	Participated
26.	8 <sup>th</sup> February 2019	3	SITAR-2K19 the National Techno Cultural Festival	PVPSIT, Vijayawada	National Level	Participated



### STUDENT CO-CURRICULAR & EXTRACURRICULAR ACTIVITIES

S.No	Date	No. of students participated	Name of the event	Organizer details	International/National/State/District/University	Prize won
1.	1 <sup>st</sup> and 2 <sup>nd</sup> January 2019	1	NIPUNA, A National Techno Cultural Festival Symposium	SRKR Engineering College, Bhimavaram	National Level	1 <sup>st</sup> prize in Mind Boggler
2.	04 <sup>th</sup> January 2019	5	YoUR fest Two day National Techno Cultural Festival Symposium	URCE, Telaprolu,	National Level	1 <sup>st</sup> & 2 <sup>nd</sup> Prize in Technical Quiz 1 <sup>st</sup> prize in Paper presentation
3.	08 <sup>th</sup> February 2019	3	SITAR-2K19 the National Techno Cultural Festival	PVPSIT, Vijayawada	National Level	1 <sup>st</sup> prize in Technical Quiz 2 <sup>nd</sup> in CAD
4.	23 <sup>rd</sup> to 26 <sup>th</sup> February 2019	14	Industrial skill developing Training Company (Practical training in Cars and Engines)	Goodwin motors, Chennai. MSME, Nsim	National level	14 Members Got First class in Training
5.	22 <sup>nd</sup> February 2019	1	Nityanjali, Elan and Nvision 2019, The Techno Cultural Festival	IIT, Hyderabad	National Level	Winner in Classical Dance
6.	14 <sup>th</sup> and 15 <sup>th</sup> February 2019	1	svISTA-2k19 two day national level techno-cultural symposium	Sri Vahini institute of Science and Technology, Tiruvuru	National Level	2 <sup>nd</sup> Prize in Tech Mind
7.	6 <sup>th</sup> January 2019	1	SCIENTIA-2019 A State Level Techno Meet	Andhra Loyola College, Vijayawada	State Level	3 <sup>rd</sup> Prize in JAM
8.	15 <sup>th</sup> -16 <sup>th</sup> February 2019	27	EXPLORES MEET 2K19, National Level Technical Symposium	SRK Institute of Technology	National Level	Participated
9.	26 <sup>th</sup> to 27 <sup>th</sup> January 2019	79	WAC what after college National Techno Cultural Symposium AUTOMOBILE & IC ENGINE DESIGN WORKSHOP	IIT, Hyderabad	National Level	Participated
10.	29 <sup>th</sup> -30 <sup>th</sup> January 2019	28	SANKETHA 2019 , A National Techno Cultural Festival Symposium	SRKR Engg. College Bhimavaram	National Level	Participated
11.	22 <sup>nd</sup> February 2019	35	WISSION TALKS A National Techno Cultural Festival	VRSEC	National Level	Participated

Energy Systems. Organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.21.

21. Vijaya Kanth .P, **Dr. V. Bala Krishna Murthy**, Chandra Mohan R. "Simulation of Thermal Ablation Process Using ANSYS Software", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
22. Anil Siva Teja M, **Balakrishna Murthy V**, Chandra Mohan R "Simulation of Static Behaviour of Composite Pressure Vessel in Ansys Software", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
23. Charitha Krishna Panithapu, **Bala Krishna Murthy Vallabhaneni**, Chandra Mohan Raparla, "Analysis of Thermal Protection System in Flex Seal of a Rocket Motor", " , International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
24. Vamsi Babu Gudlavalleti, Srinivas Inturu, **Balakrishna Murthy Vallabhaneni**, " Effect of Hollowness on Thermal Conductivity of FRP Composite with Constant Matrix Volume Fraction", International Conference on Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department, V.R.SIDDARTHA ENGINEERING COLLEGE VIJAYAWADA, During 3<sup>rd</sup>-4<sup>th</sup> JANUARY 2019.
25. **K.Siva Prasad**, G. Chaitanya "Experimental Study On Surface Roughness And Dimensional Accuracy In Drilling Of Gfrp Composites Using Abrasive Water Jet Technique", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. Organized by Mechanical Engineering Department V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
26. S.Ganesh, **A. Venkateswarlu**, "Design And Fabrication Of Solar Organic Rankine Cycle For Power Generation", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
27. U.L.Srinivas Sastra, **G.Jamuna Rani** "Impact Of Piston Geometry On Diesel Engine Performance, Emissions & combustion chamber", International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> MARCH 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram. ISBN 978-93-5351-933-9,PP 121.
28. S.Subhani, **Srinivas Kommana** "optimization of compression ratio of computerized vcr ci engine fueled with peanut oil blended with diesel and additive with egr", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019.
29. S.Subhani, **Srinivas Kommana, Raghavarao Boppudi** "optimization of compression ratio of computerized vcr ci engine fueled with peanut oil blended with diesel and additive",

International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram.

30. **M.Bala Chennaiah** “Experimental investigation of heat treatment processes on dissimilar is2602-ena mig welded joint”, International Conference On Mechanical Engineering Deisgn, held at Sri Sivasubramaniya Nadir College Of Engineering, Chennai ,on 25-26 April 2019.
31. **A.Sreenivasulu** “Determination of optimum scheduling rules in a flexible manufacturing system”, International Conference On Mechanical Engineering Deisgn, held at Sri Sivasubramaniya Nadir College Of Engineering, Chennai ,on 25-26 April 2019.
32. Y.Emima, **Rajesh.M** “Experimental investigation on performance and exhaust emission characteristics of diesel engine using different sesame oil blends with additive”, International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram.
33. **N.Vijaya Kumar** “Grey relational analysis of pine apple leaf fiber (palf) & granite powder reinforced hybrid pouyester composites”, International Conference On Mechanical Engineering Deisgn, held at Sri Sivasubramaniya Nadir College Of Engineering, Chennai ,on 25-26 April 2019.
34. **M.Balaji, CH.Naga Raju, C.Akshay Kumar** “Prediction and optimization of process parameters in turning of AA6063Al using ANN”, International Conference On Mechanical Engineering Deisgn, held at Sri Sivasubramaniya Nadir College Of Engineering, Chennai ,on 25-26 April 2019.
35. **K.Siva Prasad, G.Chaitanya** “Analysis of delamination in drilling of GFRP composites using taguchi technique”, 9<sup>th</sup> International Conference On Materials Processing And Characterization, held at Gokaraju Rangaraju Institute Of Engineering And Technology Hyderabad, Telangana, During 8-10 March 2019.
36. B.Ajay Kumar, **Dr.N.Ravi Kumar, Dr.V.Rama Krishna** “Strain measurement of underwater vehicle by experimental and numerical approaches”, International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram.
37. B.Ajay Kumar, **Dr.N.Ravi Kumar, Dr.V.Rama Krishna, Dr.O.R.Nandagopan, U.urban Kumar** “Coupled analysis of underwater system by numerical approach”, International Conference On Applied Mechanical Engineering Research, held at NIT Warangal, India on 2<sup>nd</sup> -5<sup>th</sup> May 2019.
38. **V.Bapi Raju, G.Rambabu, K.Narayana Rao** “Development Inventory Model of price dependent perishable products in sustainable environment”, International Conference On innovative Product Design And Intelligent Manufacturing System Organized by Dept of Industrial Design and Dept of Mechanical Enginnering of NIT, Rourkela During 17-18 May 2019.
39. **V.Bapi Raju, G.Rambabu, K.Narayana Rao** “A New Heuristic for solving open vehicle routing problem with capacity constraints”, International Conference On innovative

### STUDENT INTERNSHIPS

Sl. No.	Name of the Company	No. of students	Duration (No. of Days)
1.	KUSALAVA INTERNATIONAL LTD	6	45
2.	BHEL HYD	14	30
3.	ACS	14	45
4.	VOLVO	2	45
5.	SEIMENS	10	30
6.	CYEINT	2	28
7.	HAL	6	30
8.	JINDAL ECOPOLIS VIZAG	7	45
9.	GOOD WIN MOTORS	4	30
10.	TECH KEYS	4	45
11.	TECH MAHINDRA	2	30
12.	SAI BHANU CASTING	1	45
13.	GLOBAL 3D PRINTING	2	45
14.	ASHOKLEYLAND	7	45
15.	VIZAG STEEL PLANT	5	30
16.	DASSAULT SYSTEMS	1	60
17.	ERUVAKA TECHNOLOGIES	1	45
18.	A.P.G.PC.L	6	30
19.	OGNI ESCO PVT. LTD.,	2	30
20.	BEL	2	30
21.	ECIL	6	30
22.	SOUTH CENTRAL RAILWAYS	5	30
23.	DRDO	4	30
24.	TS GENCO	2	45
25.	ISRO	1	45
26.	KESAR ROAD EQUIPMENTS PVT.LTD	6	45
27.	G S ALLOY CASTING LTD	2	30
28.	HINDUSTHAN COCO COLA BEVERAGES PVT LTD	1	30
29.	BHPV	7	45
30.	BRAKES INDIA PVT. LTD	3	45
31.	BEL	11	30

42.	G.S.Pavan Kumar	Wear Test	N.Vamsi Krishna, Usha rama College of Eng & Tech, Telaprolu	11-03-2019	2,124
43.	Dr.N.Vijaya Kumar G.S.Pavan Kumar	Tensile, Bending and Hardness Testing	G.Vinod Kumar, VKR, VNB&AGK College of Eng., Gudivada	11-03-2019	2,596
44.	G.S.Pavan Kumar	Flexural Test	K.Jagadish Chandra Bose, SMV Eng. College	11-03-2019	3,823
45.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile and Flexural and Impact Testing	QIS College of Engineering and Technology, Ongole	07-03-2019	5,428
46.	Dr.N.Ravi Kumar	Tensile and Flexural Testing	N.N.Jay deep Baptala Engineering College, Baptala	21-02-2019	5,664
47.	Dr.N.Vijaya Kumar	Microstructure	M.SudhakarBabu Baptala Engineering College, Baptala	21-02-2019	1,180
48.	K.Srinivas	Trans esterification of vegetable oils	V.Ganeshkumar, SCRRCOE-Eluru URCOE-Vijayawada PSRCOE-Vijayawada	22-02-2019	6,490
49.	K.Srinivas	Performance and Emission parameters for diesel, blended with Pongamia oil on 1cyl4sCI Engine	M.Vengala Naidu Usha Rama College Of Engineering-Vijayawada	28-02-2019	4,720
50.	K.Srinivas	Performance & Emission analysis of diesel, blended with palm oil on 1cyl4sCI Engine	K.NagababuUsha Rama College Of Engineering, Vijayawada	28-02-2019	4,720
51.	K.Srinivas	Performance & Emission analysis of diesel, blended with Pongamia oil on 1cyl4sCI Engine	P.Praveen, Amrita sai institute of science and technology	06-03-2019	4,720
52.	K.Srinivas	Performance & Emission analysis of diesel, blended with Waste cooking oil on 1cyl4sCI Engine	Ch.pavan kumar, Amrita sai institute of science and technology	06-03-2019	4,720
53.	K.Srinivas	Performance & Emission analysis of diesel, blended with Castor oil on 1cyl4sCI Engine	B.Nagarjuna, Eluru college of engineering and technology, Eluru	08-03-2019	4,720

Product Design And Intelligent Manufacturing System Organized by Dept of Industrial Design and Dept of Mechanical Engineering of NIT, Rourkela During 17-18 May 2019.

40. **V.Bapi Raju**, "A Heuristic for solving open vehicle routing problem with capacity constraints", International Conference on Recent Developments in Mechanical Engineering, Held on 21<sup>st</sup> -22<sup>nd</sup> March 2019, Organized by Dept of Mechanical Engineering, S.A.Engineering College, Chennai, India.
41. **V.V.Venu Madhav**, A.V.S.S.K.S.Gupta, P.Rakesh, "FRC 339- Study of fracture behaviour of a composite laminate with central circular hole subjected to Thermo-mechanical loading with Temperature fall", International Conference On Materials, Manufacturing and Modelling, Organized by Dept of Mechanical Engineering, Vellore Institute of technology, Vellore, During 29<sup>th</sup>-31<sup>st</sup> march 2019.
42. **V.V.Venu Madhav**, A.V.S.S.K.S.Gupta, P.Rakesh, "FRC 340- Comparison of fracture behaviour of a composite laminate with Cross-Ply & Angle-Ply lay-up subjected to Thermal rise Loading", International Conference On Materials, Manufacturing and Modelling, Organized by Dept of Mechanical Engineering, Vellore Institute of technology, Vellore, During 29<sup>th</sup>-31<sup>st</sup> march 2019.
43. **N.Vijaya Kumar**, B.Sai Krishna, N.Sai Chandrika, "Evaluation of Properties of Glass-Banana fibre Reinforced polymer hybrid composite", International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9, PP 115.
44. V.Rama Krishna, B.Ajay Kumar, O.R.Nandagopan, **N.Ravi Kumar**, U.Urban Kumar, "Coupled analysis of underwater system by Numerical Approach", 1<sup>st</sup> International Conference on Applied Mechanical Engineering Research, Organized by Dept of Mechanical Engineering, NIT Warangal, During 2<sup>nd</sup> -4<sup>th</sup> May 2019.
45. Nilesh Ramesh Kolhalkar, **Leela Krishnan Vaidyabhushan**, "Mechatronics system for diagnosis and treatment of major diseases in Grape vineyards based on image processing", International Conference On Recent Advances In Materials, Manufacturing And Energy Systems. organized by Mechanical Engineering Department, V.R.Siddartha Engineering College Vijayawada, during 3<sup>rd</sup>-4<sup>th</sup> January 2019, ISBN 978-81-933256-6-7, PP 121.
46. **M.Bala Chennaiah**, K.Sai Ram, K.V.B.N.S.Rama Krishna, I.Lohit, I.V.S.Nikhil, S.Madhav, "Influence of Tool Profiles on Mechanical Properties in Al-5083 Alloy Using Friction Stir Welding", 1<sup>st</sup> International Conference on Applied Mechanical Engineering Research, Organized by Dept of Mechanical Engineering, NIT Warangal, During 2<sup>nd</sup> -4<sup>th</sup> May 2019.
47. R.Vineetha, **G.Srivalli**, "Performance Enhancement of The Radiator with Different Fluids", International Conference On Applied Science And Technology, held on 27<sup>th</sup>& 28<sup>th</sup> March 2019, at Sagi Rama Krishnam Raju Engineering College, Bhimavaram, ISBN 978-93-5351-933-9.

## WORKSHOPS/SEMINARS/FDP ATTENDED BY FACULTY

1. V.V.Venu Madhav attended a workshop on “Stress Management” at IT Department on 2<sup>nd</sup> Feb, 2019.
2. K.Ravi Kumar attended a Faculty Development Program on “Strategies and ICT Tools for Hybrid Vehicles” at NIT,Warangal during 7<sup>th</sup> -12<sup>th</sup> Feb,2019.
3. Dr. M.Balaji attended a short term training program on “Recent Advancement in High Speed Machining Technology and Part Inspection” at IIT, Madras during 4<sup>th</sup> to 9<sup>th</sup> March 2019.
4. Dr. G.Dilli Babu attended a Faculty Development Program on “Smart Nano Materials : Fundamentals to Applications(SNFA-2019)” at NIT, Calicut during 25<sup>th</sup> to 29<sup>th</sup> March 2019.
5. Dr. Ch.Naga Raju attended a Faculty Development Program on “Business Statistics” at IIT Roorkee during Jan to April (9 days) 2019.
6. Dr. Ch.Naga Raju, G.Jamuna Rani, G.Srivalli, A.Mallikarjuna Rao attended a Faculty Development Program on “Catia, Delmia, Simulia” at APSSDC, VRSEC,Vijayawada during 15<sup>th</sup> to 20<sup>th</sup> April 2019.
7. A.N.Phani Deepthi, G.Jamuna Rani attended a Faculty Development Program on “Advances in Computational Fluid Dynamics:Methods And Applications Using Matlab and Ansys-Fluent” at NIT,Warangal during 6<sup>th</sup> to 11<sup>th</sup> May 2019.
8. M.Rajesh attended a Faculty Development Program on “Green and Sustainable Technologies for Materials Manufacturing and Processing” at PVPSIT, Vijayawada during 10<sup>th</sup> to 22<sup>nd</sup> June 2019.
9. V.Bapi Raju, K.Srinivasa Rao, P.Gopinadh Choudary attended a workshop at BMS College of Engineering, Bangalore during 17<sup>th</sup> to 21<sup>st</sup> June 2019.

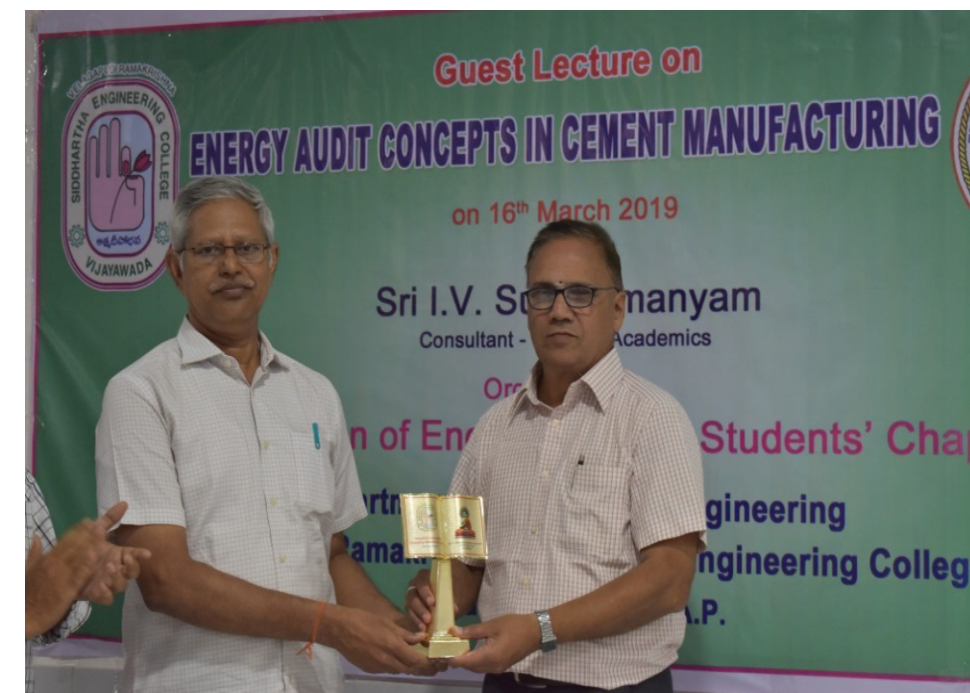
27.	G.S.Pavan Kumar	Impact Tasting	G.N.Phanindra Kumar, Chirala Engineering College, Chirala	23-03-2019	708
28.	Dr.N.Vijaya Kumar G.S.Pavan Kumar	Tensile and Flexural Testing	B.Dinesh Naidu, Vishnu Institute of Technology, Bhimavaram	14-03-2019	3,776
29.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile Flexural and Impact Testing	P.Sai Kumar, GudlalleruEngineering College, Gudlalleru	19-03-2019	3,540
30.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile Flexural and Impact Testing	B.Sreekanth Reddy, Sasi Institute of Technology, Tadepalligudem	19-03-2019	4,130
31.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile Flexural and Impact Testing	V.VijayaBhargav, Sri Vasavi Institute of Engineering and Technology Chirala	12-03-2019	8,638
32.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile Flexural , Impact and Hardness Testing	M.Anil, St. Anns College of Engg and Technology, Chirala	12-03-2019	2,301
33.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Testing of Composites	M.Jagadish, K.L.Education Foundation	17-04-2019	708
34.	G.S.Pavan Kumar	Impact Testing	P.TirupatiRao, K.L.Education Foundation	16-04-2019	944
35.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Testing of Composites	R V R and J C College of Engineering, Guntur	18-04-2019	1,770
36.	Dr.N.Vijaya Kumar G.S.Pavan Kumar	Tensile and Impact Testing	M.VinayBabu, S R K R Engineering College, Bhimavaram	20-04-2019	2,478
37.	Dr.N.Vijaya Kumar G.S.Pavan Kumar	Tensile and Flexural Testing	M.R.S Sailaja, Vishnu Institute of Technology, Bhimavaram	14-03-2019	4,248
38.	G.S.Pavan Kumar	Wear Test	G.Rajesh, MIC College of Tech., Kanchikacharla	25-03-2019	1,770
39.	Dr.N.Vijaya Kumar G.S.Pavan Kumar	Tensile and Flexural Testing	E.Gopi, Gudlalleru Engineering college	19-03-2019	2,360
40.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile and Flexural , Impact & Hardness	Y.Sai Kesavardhan, St.Anns College of Engg. &Tech., Chirala	16-03-2019	2,301
41.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile and Flexural , Impact & Hardness	Sk. Abdul Rehman, St.Anns College of Engg & Technology, Chirala	12-03-2019	2,301

13.	Dr.N.Ravi Kumar	Tensile and Flexural Testing	D. KiranBabu Usharama college of Engineering	22-02-2019	2,832
14.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Test	E.Nagarjuna, QIS college of engineering & Tech.	02-03-2019	5,428
15.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Test	P.P.S .Manikanta,Sai Institute of technology	02-03-2019	8,142
16.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Test	N.Mahesh, Sasi institute of Tech. & Engg.	02-03-2019	6,514
17.	G.S.Pavan Kumar	Bending Testing	P.sambasivaharikrishna,P. V.P.S.I.T	01-03-2019	1,416
18.	G.S.Pavan Kumar	Flexural and Hardness Testing	K,Naga Surya Teja, Ramachandra College Of Engineering	06-03-2019	1,770
19.	K.Ramanaiah G.S.Pavan Kumar	Tensile, Flexural and Impact Test	Mr S.V.Naveen, Sasi institute of Engineering & Technology	06-03-2019	1,770
20.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Test	Dr.G.Rajesh MIC College of Technology , Kanchikacherla	21-03-2019	7,434
21.	K.Ramanaiah G.S.Pavan Kumar	Thermal Conductivity	K.SureshBabu, SSN Engineering College, Ongole	20-03-2019	7,080
22.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile and Flexural Testing	S.Rajesh, Vishnu Institute of Technology, Bhimavaram	14-03-2019	2,832
23.	K.Ramanaiah G.S.Pavan Kumar	Tensile Testing	Joseph Thambi, Nalanda Institute of Engineering and Technology, Sathenapalli	29-03-2019	1,180
24.	G.S.Pavan Kumar	Wear Testing	P.PhaniVenkatesh, Sree Vishnu Engineering College, Tadepalligudem	23-02-2019	1,416
25.	K.Ramanaiah G.S.Pavan Kumar	Thermal Conductivity	Dr.G.Rajesh, MIC College of Technology, Kanchikacherla	26-03-2019	8,260
26.	G.S.Pavan Kumar	Flexural Testing	J.SriHari, Adhitiya College of Engineering and Technology, Kakinada	25-03-2019	4,248

## GUEST LECTURES ORGANIZED



1. A Guest lecture on “Automotive Industry at cross roads current status and future Directions” organized by the SAE INDIA and conducted in VR Siddhartha Engineering College, Mechanical Department on 08/01/2019, Speaker: Dr.N.Narayanaswamy, Manager, Hutinson, FMS, Inc.,



2. A Guest lecture on “Energy Audit Concepts in Cement Manufacturing” organized by the Institution of Engineers and conducted in VR Siddhartha Engineering College, Mechanical Department on 16/03/2019, Speaker: Sri I.V.Subrahmanyam, consultant – Cement Academics.

## RESEARCH & DEVELOPMENT ACTIVITIES

### Research Projects Sanctioned

S.No	Title of the Project	Funding Agency	Amount in Lakhs (Rs), Year & Period	Start date	Name of PI/Coordinator & Co-Investigators
1	Modernization of the Metrology Laboratory	AICTE New Delhi	Rs. 15,29,000/- 2 year	May 2019	Dr N. Vijaya Sai Dr. G. Dilli Babu

### Ongoing Research Projects

S.No	Title of the Project	Funding Agency	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 V. 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 Excellence of 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

### Details of Patents applied

S.No	Name of the Faculty	Title of the Patent	Agency	Year of application	Status
1	S.P.Kumar Gudapati, Dr. A.V. Ratna Prasad	PA –Fiber Reinforced Polyester Composites	Innove Intellects, Ghaziabad, UP	2019	Published (201941001503)
2	Dr. A. V. Ratna Prasad, Gunti Rajesh	Fully Biodegradable tooth brush handle	Innove Intellects, Ghaziabad, UP	2019	Published (201941002325)

## CONSULTANCY DETAILS

**Revenue earned through consultancy: Total Amount Rs. 1,92,612/-**

S. No	Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency details	Date	Revenue generated in Rupees
1.	G.S.Pavan Kumar	Sonication Testing	B. Jai Ram Sir C.R.Reddy College of Engineering, Eluru	09-01-2019	236
2.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Testing	S.V.Naveen Sasi Institute of Technology & Management, Tadepalligudem	23-01-2019	3,776
3.	G.S.Pavan Kumar	Sonication Testing	G. Naresh Sir C.R.Reddy College of Engineering, Eluru	08-01-2019	708
4.	K.Ramanaiah G.S.Pavan Kumar	Thermal Conductivity Testing	Sneha.M.Dhoria RVR & JC College of Engineering, Guntur	06-02-2019	10,000
5.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Tensile, Flexural and Impact Testing	U.Rama Krishna Ramachandra college of Engineering, Eluru.	07-02-2019	2,124
6.	G.S.Pavan Kumar	Sonication Testing	G. Naresh Sir C.R.Reddy College of Engineering, Eluru	08-02-2019	708
7.	Dr.A.V.Ratna Prasad G.S.Pavan Kumar	Manufacturing of composite samples	P.V.Deepthi S.R.K.R. Engineering College, Bhimavaram	12-02-2019	3,776
8.	K.Ramanaiah G.S.Pavan Kumar	Thermal Conductivity Testing	Sneha.M.Dhoria RVR & JC College of Engineering, Guntur	07-02-2019	325
9.	Dr.N.Vijaya Kumar	Microstructure	M.M.Kiran Kumar NRI Institute of Engineering, Vijayawada	16-02-2019	708
10.	K.Ramanaiah G.S.Pavan Kumar	Thermal Conductivity & Hardness Testing	M. V.MohanSai MIC College of Technology, Kanchikacharla	21-02-2019	4,071
11.	K.Ramanaiah G.S.Pavan Kumar	Tensile, Flexural and Impact Testing	M.P.RamSai MIC College of Technology, Kanchikacharla	21-02-2019	7,080
12.	K.Ramanaiah G.S.Pavan Kumar	Tensile, Flexural and Impact Testing	P.SaiTejaHarsha Sri Vasavi Engineering college, Tadepalligudem	22-02-2019	5,900