

faculty Research/Publications

1. **J. Laxman** and **K. Eswaraiah** "Effect of Electric Discharge Machining Process Parameters on Titanium Super Alloy" Journal of Emerging Technologies and Innovative Research (JETIR) ISSN: 2349-5162, June 2018, Vol 5, Issue 6, Pages 511-517.
2. **Chandramouli S** and **Eswaraiah K.** "Experimental investigation of EDM process parameters in machining of 17-4 PH Steel using taguchi method" Elsevier: Materials Today: Volume 5, Issue 2, Part 1, 2018, Pages 5058-5067, ISSN: 2214-7853.
3. **B. Ravindar** and **Dr. K. Eswaraiah**, "Comparison of Pulsed TIG Welding and FSW Processes of 5083 Aluminium Alloy" International Journal of Pure and Applied Mathematics, Volume 118 No. 24 2018 ISSN: 1314-3395, pages 1-9.
4. **Chandramouli S** and **Eswaraiah K** "Investigation and Optimization of Electric Discharge Machining Process Parameters Aluminum Metal Matrix Composites Using Taguchi Method" International Journal of Advanced Science Engineering and Medicine, Vol 10, 1-5, 2018.
5. **Basani Satish, P.S.S. Murthy** and **K. Eswaraiah**, "Hierarchical parallel processing for design optimization - a case study" Elsevier: Materials Today Materials Today: 5 (2018) pages 5117-5123.
6. **Chandramouli S** and **Eswaraiah K.** "Prediction and Optimization of EDM process parameters 17-4 PH steel using Artificial Neural Network and Genetic Algorithm" International Journal of Engineering Research and Application, ISSN 2248-9622, Vol 8, Issue 6, June 2018, pp 54-58.
7. **Dr. K. Sridhar, G. Lingaiah, G. Vinod Kumar, S. Anil Kumar** and **G. Ramakrishna** "Performance of cylindrical parabolic collector with automated tracking system" Springer Link: Applied Solar Energy, 2018, Vol. 54, No.2, Allerton Press, March, 2018, Pg No. 134-138, ISSN No.0003-701X.
8. **S. Anil Kumar, Dr. K. Sridhar** and **G. Vinod Kumar**, "Heat transfer analysis of solar air heating system for different tilt angles" Springer Link: Applied Solar Energy, 2018, Vol. 54, No.1, Allerton Press, January, 2018, Pg No. 17-22, ISSN No.0003-701X
9. **P. Venkateswara Rao** and **B. V. Appa Rao**, Heat release rate, performance and vibration analysis of diesel engine operating with biodiesel - Triacetin additive blend fuels, International Journal of Automobile Engineering Research and Development (IJAERD) ISSN (P): 2277-4785; ISSN (E): 2278-9413, Vol. 8, Issue 2, Apr 2018, 1-12
10. **Venkateswara Rao, P.** and **Prabhakara Chary, D.**, Diesel engine performance analysis with blend fuel of biodiesel and Turpentine oil as biofuel additive, International Journal of Engineering, Scientific and Mathematics, Volume No. 7, Issue No. 1, PP: 7-12, Jan. 2018. ISSN: 2320-0294 Impact Factor: 6.765
11. **Venkateswara Rao, P.** and **Prabhakara Chary, D.**, Characteristics Investigation of Biodiesel-Diesel (B50) Blend with Ethanol Additive as C I Engine Fuel, International Journal of Scientific Engineering and Technology, ISSN : 2277-1581 Volume No. 7, Issue No. 1, PP : 7-12, Jan. 2018.
12. **P.S.S.Murthy, A. Satyadevi** and **A. Gopala Krishna** "Kinematic Analysis a HSHH Spatial Mechanism by Generated Surfaces" Elsevier: Materials today Proceedings 5(2018), ISSN: 2214-7853, pp.5289-5295.
13. **G. Srinivasa Rao** and **K.V.Sharma**, "Numerical and Experimental Investigation of a Packed bed Thermal energy storage system with hybrid Nano fluid" SSRG International Journal of Mechanical Engineering (SSRG-IJME) Volume 5 issue 1 January 2018 pp. 19-25, ISSN: 2348-8360.
14. **Challagonda Sandeep Reddy, Kandagatla Uday Kiran** and **Ch. Karunakar**, "Design of Air Bag System by Hydraulic Circuit and Direct Acting Solenoid Flow Regulator", International Journal of Science Technology & Engineering (IJSTE) volume 4, issue 09, March 2018, ISSN:2349-784X, PP 120-123.

15. **Challagonda Sandeep Reddy, Ch. Karunakar, Yelisetti Narendra Jumar** and **Kandagatla Uday Kiran**, "Design of Hydraulic Bumper for Mitigation of Low Speed Collisions", International Journal of Science Technology & Engineering (IJSTE) volume 4, issue 11, May 2018, ISSN:2349-784X, PP 62-65.
16. **Kishor K Kumar, Ch. Karunakar** and **B. ChandraMouli**, "Development and Characterization of Hybrid Fibres Reinforced Composites Based on Glass and Kenaf Fibers", Elsevier: Materials Today Proceedings 5(2018) 14539-14544, pp 14539-14544.
17. **Sri Sai Bhargav Pulugurtha, Hari Kumar Andem** and **Ramesh Siripuram**, "Design and NVH Analysis of Disc Brake System", International Journal of Current Engineering and Technology, E-ISSN 2277-4106, P-ISSN 2347-5161, Vol. 8 No. 3, May/June 2018

Faculty publications in National/International conferences

1. **J.Laxman** and **K. Eswaraiah** "Effect Of Electric Discharge Machining Process Parameters on Titanium Super Alloy" 3rd International Conference on Innovation Trends in Engineering, Applied Science and Management(ICITEASM-2018) on 24th June 2018, ISBN 9778-93-87433-24-4, pp-289-295.
2. **J. Laxman, K. Eswaraiah** and **P. Prabhakara Rao**, "Experimental Study of Drilling Process Parameters on Aluminum Metal Matrix Composites", 3rd International Conference on Innovation Trends in Engineering, Applied Science and Management (ICITEASM-2018) on 24th June 2018, ISBN 9778-93-87433-24-4, pp-430-435.
3. **V. Rakesh, P.S.S. Murthy** and **K. Eswaraiah** "Testing of isomorphism in kinematic chain G.A based case study" National conference o Advances in Mechanical Engineering & Nano Technology" (NCAMENT2018) during 29-30, June 2018 MED, University college of Engineering, Osmania University, Hyderabad.
4. **V. Sampath, K. Eswaraiah** and **M. Ashok Kumar**, "Experimental investigation of process parameters of EDM on 17 – 4 PH steel using Taguchi method" National conference o Advances in Mechanical Engineering & Nano Technology" (NCAMENT2018) during 29-30, June 2018 MED, University college of Engineering, Osmania University, Hyderabad.
5. **V. Sampath, K. Eswaraiah** and **Khizar Adnan**, "Optimization of electric machining process parameters using artificial neural network" National conference o Advances in Mechanical Engineering & Nano Technology" (NCAMENT2018) during 29-30, June 2018 MED, University college of Engineering, Osmania University, Hyderabad.
6. **Chandramouli S** and **Eswaraiah K.** "Experimental investigation of EDM process parameters in machining of 17-4 PH Steel using taguchi method" 6th International conference on Materials processing and characterization (ICMPC-18)
7. **Hari Kumar Andem, Dr. P. Ramesh Babu**, "Tribological Behaviour of Alumina as a Lubricant Additive" National conference o Advances in Mechanical Engineering & Nano Technology" (NCAMENT2018) during 29-30, June 2018 MED, University college of Engineering, Osmania University, Hyderabad.

**** Do u know the meaning
of ME?
MOTHER OF ENGINEERING..;
Proud to be a ME. ****



THE PRODIGY

DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER - JUNE 2018

Chief Editor:

Dr. K. Eswaraiah
Professor and Head

Editors-In-Charge:

Sri. S. Ramesh
Assistant Professor
Sri. K. Kishor Kumar
Assistant Professor

Students Editorial Board

MR.R.SAI KRISHNA (III/IV)
MR.K.SHRAVAN ANAND (IV/IV)

Directors' Message



My heartiest
congratulations
to the department
of Mechanical

Engineering, in bringing out a newsletter portraying the academic and non-academic activities of their department. In the era of 'Outcome Based Education', empowering the students is the thrust area to be addressed in a professional Institution. And I am happy to know that department of Mechanical Engineering is moving towards that goal.

Dr. Y. Manohar

Principals' Message



I feel proud
and honor to
write this message
because this

newsletter is the testimonial of the commitment of the department towards the outcome based education and enhanced student-teacher learning process which is in line with the vision and mission of the department. I hope that the department will strive further to improve the quality of the education and bring laurels to the institute.

Dr. P. Venkateswara Rao

HODs' Message



It is happy
to bring out
this news
letter and the

best part of the newsletter is that students bagged many accolades and prizes not only in academics but also in extracurricular activities. This newsletter will provide few examples of achievements of the students and faculty in the academic year 2014-2015. I am looking forward to more success from the department

Dr. K. Eswaraiah



A team of 18 students of B.Tech II & I Year Mechanical Engineering were participated in main event of National electric kart Championship-2018, competition, which was held at RKDF University, Bhopal during 20st – 24th March, 2018 and secured Best Team Spirit Award and Cash prize of Rs 5000/-



Interaction with foreign delegates-Indo American Artificial Heart Project(Right to left):Dr. Srinivas Prakash Ragella, Professor, BITS, PILANI; Dr. G. Ganesh Kumar, KITSW; Dr. K. Eswaraiah, Head, MED, KITSW;Dr. PS Reddy, Professor of Medicine, UPMC, Chairman SHARE;Dr. Harvey Borovetz, Professor, UPMC; Dr. K. Venu Madhav, KITSW; Dr. A Subhananda Rao,SNITS; Dr. James Antaki Professor, Cornell University, New York;(Date: 10.03.2018)

Vision of the Department

- To be a centre of excellence in Mechanical Engineering, to provide the best teaching-learning and research environment, to produce high quality professionals and entrepreneurs to cater the needs of society.

Mission of the Department

- M1: To impart quality education that builds strong ethical attitude, technical knowledge and professional skills by providing congenial teaching-learning environment.
- M2: To nurture the reasoning, problem solving and research capabilities of learners by providing the state-of-the-art facilities, to meet the changing needs of society.
- M3: To inculcate life-long learning and leadership traits for successful professional careers, by counseling and mentoring.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PE01 : To provide comprehensive knowledge in basic sciences, mechanical engineering and multi disciplinary areas.
- PE02 : To apply modern tools and techniques to design analyze interpret and solve mechanical and allied engineering problems and communicate them effectively.
- PE03 : To impart responsibility towards socio-technical, economical, environmental and energy related issues.
- PE04 : To inculcate professionalism, ethical attitude, team spirit and lifelong learning to achieve career goals.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Engineering Graduates will be able

- PS01 : To apply learned principles and knowledge in various applications of materials, design, thermal, production and industrial engineering.
- PS02 : To model, analyze, design, develop and implement advanced mechanical systems or processes.

Faculty Development Programme



One Week Faculty Development Programme (FDP) on Engineering Drawing from 27th February, 2018 – 05th March, 2018. Resource persons Prof. V.V.S. Sastry, Rtd. Professor, KITSW and A. Sridhar Kumar , IIPE. organised by dept. of mechanical engineering. Convener: **Dr.K.SRIDHAR** prof. Faculty Co-ordinators: **SRI S. RAMESH** Ass.prof, **SRI M.ANIL KUMAR** Ass.prof.

Mechanical Engineering Students Association (MESA) Activities

S.No.	Event Name	No. of Students Participate
1.	Role Play	100
2.	Technical Quiz	150
3.	Guest Lecture	200
4.	Technical Paper Presentation	30
5.	Group Discussion Sessions	100
6.	Mock Interview	70
7.	Cultural Events	200

No.of students placed in campus : 36

sl no	name of the comapany	no.of students selected
1	MuSigma muApt	3
2	ZENQ	1
3	Just Dial	2
4	Byju's	2
5	Cyient Ltd	7
6	Raam Group	2
7	Collabera	1
8	Zopper	1
9	Infosys	3
10	Rivigo	1
11	Alien Developers Pvt.Ltd	2
12	Destine	1
13	QSpiders	3
14	FACE Academy	2
15	Tech Mahindra	2
16	Landmark Global	1
17	Vem Technologies	1
18	Meldon Industries	1

STUDENTS ACHIEVEMENTS



K.SHRAVAN ANAND (IV/IV) Worked as hardware integration intern. (Expression of robotic emotions through eyes using TFT displays with ATSAM3X8E ARM Cortex M3 CPU, Design and fabrication of robotic arm mechanism, Motion study of head rotation and nodding system with Fusion360).

our karting team FIRE WINGS stood 7th position in NATIONAL ELECTRIC KARTING CHAMPIONSHIP (NEKC-2018) along with TEAM SPIRIT award.

Galleria: Our Cultural and Technical Events

