# **R&D Activities: Mechanical Engineering**

**2010-11**

## *International Journals:*

1. Padma lalitha M, **Sivaramireddy N**, Veerareddy VC (2010). “Optimal DG placement for maximum loss reduction in radial distribution system using ABC Algorithm” International journal of reviews in computing. Vol 3. 2010.
2. Padma lalitha M, ,Veerareddy VC.V Usha, **Sivaramireddy N**(2010) “Application of fuzzy and PSO for DG placement for maximum loss reduction in radial distribution system. ARPN Journal of Engineering and applied sciences.Vol 5, No 4-2010.
3. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “Vendor Selection in the context of E-Manufacturing using Hierarchal Fuzzy TOPSIS – ROC algorithm” International Journal of Multidisciplinary Research and Advances in Engineering (IJMRAE), ISSN 0975-7074, Vol 2, No. 1, pp341-354.
4. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V, Abdul Shafi M (2010) “Evolution of vendor selection criteria and approaches – Extended Literature Review”, International Journal ETA-ETS, Vol 3 (2), pp 88-98,
5. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “Supplier Selection Methods – A literature Review”, International Journal of Technology World, Malaysia.
6. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “Evolution of vendor selection criteria and approaches – Literature Review, International Journal of Manufacturing Science and Technology, Vol 4 (2), pp 103-123.
7. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “Framework for supplier selection e-manufacturing perspective”, International Journal of logistics and supply chain management, Vol 2 (2), pp 91-96.
8. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “ Investigations supplier selection for e-manufacturing – a case study”, Int., Jnl., Of Manufacturing Science. Vol. 3 PP 45-56.
9. **Sridhar CNV,**Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “ Investigations supplier selection for e-manufacturing – a case study”, International Journal of Business Insights and Transformation, ISSN 0974-5874, Vol 3(2).
10. **K.C.Vara Prasad,** K. PrahladaRao and S.M. Saleemuddin, Heuristic approach based similarity coefficient for machine cell formation in a Flexible Manufacturing System, IJERIA, ISSSN 0974-1518, pp211-224.
11. **K.C.Vara Prasad,** K. PrahladaRao, Modelling of advanced cellular flexible manufacturing systems with productivity consideration during alternate process plans: a mathematical approach, IJMSEA, ISSN 0973-9424, p369-383
12. **K.C.Vara Prasad**, K. PrahladaRao, Metaheuristic algorithm for design optimization of productivity for flexible cellular manufacturing system, IJ-CA-ETS, ISSN 0974-3596, pp58-63

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## *International Conferences*

1. **Sridhar CNV**, Vijaya Kumar Reddy K, Venugopal Reddy V (2010) “Supplier selection criteria evaluation in the context of E-Manufacturing using clustered fuzzy hierarchical TOPSIS method using ROC algorithm” International Conference on AIEA – 10, Chennai during 6-8 Jan 2010.
2. G Rama Rao, **Sridhar CNV**, (2010) “Supplier selection criteria evaluation in the context of E-Manufacturing using fuzzy hierarchical TOPSIS-A case study with Nelcast.” International Conference on AIEA – 10, Chennai, 6-8 Jan 2010
3. **M.Dastagiri**, **M.Maruthi Prasad** (2010) “Application of Axiomatic Design in Injection moulding Process”, International Conference on FAME-2010.organized by Sathyabama University, Chennai, Nov 2010.
4. M.Dastagiri, **M.Maruthi Prasad** (2010) “Application of Axiomatic Design in Injection moulding Process”, International Conference on FAME-2010.organized by Sathyabama University, Chennai, Nov 2010.

***National Conferences***

1. **M.Dastagiri, M.Maruthi Prasad**, (2010) “Product Design, a Methodology based on Axiomatic Approach” National Conference on mechanical Engineering Trends COMET-2010., Bellary Institute of Technology& Management. Feb 2010.
2. M.Dastagiri**, M.Maruthi Prasad**, (2010) “Product Design, a Methodology based on Axiomatic Approach” National Conference on mechanical Engineering Trends COMET-2010., Bellary Institute of Technology& Management. Feb 2010.

**3  M.Dastagiri,** N.Deepthi, (2010)“systematic Design of Manufacturing systems, a
 Methodology based on Axiomatic Design” National Conference on DYNAMECH-2010,
 JNTUA College of Engineering, Ananthapur Oct-2010

### **Training /Short Term Courses/ workshops attended**

1. **Dr.G.Prabhakararao**Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
2. **N. SIVA RAMI REDDY** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
3. **S Deva Prasad** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
4. **CNV Sridhar** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
5. **KL Narasimhamu** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
6. **A. HEMANTHA KUMAR**Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
7. **KC Varaprasad** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
8. **VVN Bhaskar** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
9. **M Marurhi Prasad** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
10. **R.V.N.R. Surya Prakash** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
11. **H. SURESH BABURAO**Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
12. **K. NAGAMANI**Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
13. **M.Dastagiri**Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
14. **M.Dastagiri** participated in a day workshop on ” Recent Trends in Design & Manufacturing Systems” at ST Johns College of Engineering and Technology, Yemmiganur during 29/Jan/2011.

### **M.Dastagiri** participated in a two days national level workshop on “Computational fluid    dynamics & applications” at G.P.R.E.C Kurnool during December 10-11, 2010.

1. **B. SANTOSH KUMAR** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011
2. **K.Ajay Kumar Reddy**AttendedaA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
3. **K.Ajay Kumar Reddy**participated in a day workshop on ” Recent Trends in Design & Manufacturing Systems” at ST Johnes College of Engineering and Technology, Yemmiganur during 29/Jan/2011.
4. **K.Ajay Kumar Reddy** participated in a two days national level workshop on “Computational fluid dynamics & applications” at G.P.R.E.C Kurnool during December 10-11, 2010.
5. **C.Ramanjaneyulu**Attended A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
6. **C.Ramanjaneyulu**participated in a day workshop on ” Recent Trends in Design & Manufacturing Systems” at ST Johnes College of Engineering and Technology, Yemmiganur during 29/Jan/2011.
7. **C.Ramanjaneyulu** participated in a two days national level workshop on “Computational fluid dynamics & applications” at G.P.R.E.C Kurnool during December 10-11, 2010.
8. **T.BhargaviLakshmi**AttendedaA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
9. **G. BalaNarasimha** Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
10. **S.BrahmanandaReddy**AttendedA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
11. **K.VijayaLakshmi**AttendedA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/may/2011 to 05/June/2011.
12. **V.Venkatesh**AttendedA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/May/2011 to 05/June/2011.
13. **R.K. SANGHA MITHRA**, Attended aA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/May/2011 to 05/June/2011.
14. **N.DEEPTHI** Attended aA.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/May/2011 to 05/June/2011.
15. **S. INAYATH**, Attended a A.I.C.T.E sponsored one week staff development program on “Recent Trends in Manufacturing Systems” at AITS Rajampet during 30/May/2011 to 05/June/2011.

# **R&D Activities: Mechanical Engineering**

**2011-12**

## *International Journals:*

1. Rama Rao A., Ratnam.Ch, **Sridhar CNV** (2011) “A proposal for criteria evaluation and selection of ISPs for e-manufacturing”, IACSIT International Journal of Engineering and Technology,Singapor. Vol.3, No.3, pp-292-296
2. **B.Venkatesh**, Published a paper in International level journal “Coimbatore Institute of Information Technology International Journal” on “Emission control using water emulsified diesel in single cylinder diesel engine”, Issue : August 2011, DOI: PDCS082011036.
3. **A.HemanthaKumar,**G.Krihnaiah, V.Diwakar Reddy. Published a paper entitled,“ANN Based Prediction of Surface Roughness in Turning “ in INTERNATIONAL Journal “International Journalof Mechanical Engineering and Technology (IJMET)”, Vol3, issue 2, May- August 2012.Pgno 162 – 170.
4. **VVN Bhaskar**, Dr.R.Hariprakash, Dr.B. Durgaprasad (2012) “Fuel Induction Techniques and Hydrogen Assisted Jet Ignition for the Hydrogen fuelled S.I Engine” International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, (IJ-ETA –ETS, ISSN 0974-3588), JAN' 12 – JUNE' ’12 , Volume 5, No1, pp 61-66.

### **Training /Short Term Courses/ workshops attended**

1. **A Hemanth Kumar** Attended a four days staff development program on “AutoCAD 2011” at JNTU college of Engineering, Pulivendula during 22/Nov/2011 to 25/Nov/2011 conducted by Jawahar Knowledge Center Institute for Electronic Governance.
2. **M.Dastagiri**Attended a four days staff development program on “AutoCAD 2011” at JNTU college of Engineering, Pulivendula during 22/Nov/2011 to 25/Nov/2011 conducted by Jawahar Knowledge Center Institute for Electronic Governance.
3. **M.Dastagiri**Attended a A.I.C.T.E sponsored two week staff development program on “Recent Advances in Manufacturing Systems” at CBIT Hyderabad during 7/may/2012 to 19/May/2012
4. **V.Venkatesh** Attended a A.I.C.T.E sponsored two week staff development program on “Recent Advances in Manufacturing Systems” at CBIT Hyderabad during 7/may/2012 to 19/May/2012.
5. **P.Ravindranatha Reddy** Attended a A.I.C.T.E sponsored two week staff development program on “Recent Advances in Manufacturing Systems” at CBIT Hyderabad during 7/May/2012 to 19/May/2012.

# **R&D Activities: Mechanical Engineering**

**2012-13**

## *International Journals:*

1. **B.Venkatesh**, Published a paper in International journal “International Journal of Advances in Engineering & Technology,” on “Emission control using water emulsified diesel in single cylinder diesel engine” on Jan. 2013. ISSN: 2231-1963, Vol. 5, Issue 2, pp. 263-273.
2. T.Kavitha, M.ChandraSekhar, **CNV Sridhar**,Published a paper in International journal “A Neuro- Fuzzy Based Approach to Modeling Affective Customer Satisfaction Towards Car Seat Design” in International journal of Engineering Research and Applications (IJERIA) IN: 2248-9622, Volume 2, Issue 6, Nov-Dec 2012, pgno: 975-980.

### **Training /Short Term Courses/ workshops attended**

1. **H Suresh baburao**Attended a workshop on “Recent Trends on Emission Control in IC Engines” Conducted by Dept. of Mechanical Engineering at Sri venkateshwara College of Engg, Sriperambudur, Chennai on 25/03/2013
2. **M Marurhi Prasad** Attended a A.I.C.T.E sponsored five days staff development program on “Optimization For Engineering Design” at IIT Madras during 3/Sep/2012 to 07/Sep/2012
3. **M.Dastagiri**Attended a A.I.C.T.E sponsored short term course on “Recent Topics in Fluid Dynamics” organized by Dept. of Applied Mechanics at IIT Madras during 19/Nov/2012 to 24/Nov/2012.
4. **K.Ajay Kumar Reddy** Attended a two days workshop on “Composite design &Analysis using FEM” at MITS Madanapalli during 22/July/2012 to 23/July/2012.
5. **B.Venkatesh** Attended a A.I.C.T.E sponsored short term course on “Recent Topics in Fluid Dynamics” organized by Dept. of Applied Mechanics at IIT Madras during 19/Nov/2012 to 24/Nov/2012.
6. **N.Deepthi,** Attended aA.I.C.T.Esponsored two days international workshop on “Composites Design and Analysis using FEM” at MITS Madanapalle during 21/Dec/2012 to 22/Dec/2012.
7. **T.Nishkala,** Attended a A.I.C.T.Esponsored two days international workshop on “Composites Design and Analysis using FEM” at MITS Madanapalle during 21/Dec/2012 to 22/Dec/2012

# **R&D Activities: Mechanical Engineering**

**2013-14**

## *International Journals:*

1. **H Suresh baburao**, B.Venkatesh, Dr. T.VenkateshwaraRao, Dr. K.Hemachandra Reddy. Published a paper in International journal “International Journal of current Engineering &Technology(IJCET),” on “Experimental Investigation on Engine Performance of Diesel Engine Operating on Peanut Seed Oil Biodiesel Blends” volume 3, No 4. 21 – October 2013, pp. 1429-1435. Impact factor(2013): 2.771.
2. H Suresh baburao, **B.Venkatesh**, Dr. T.VenkateshwaraRao, Dr. K.Hemachandra Reddy. Published a paper in International journal “International Journal of current Engineering &Technology (IJCET),” on “Experimental Investigation on Engine Performance of Diesel Engine Operating on Peanut Seed Oil Biodiesel Blends” volume 3, No 4. 21 – October 2013, pp. 1429-1435. Impact factor(2013): 2.771.
3. **H Suresh baburao**, Dr. T.VenkateshwaraRao, Dr. K.Hemachandra Reddy. Published a paper in International journal “International Journal Of Mechanical Engineering & Technology(IJMET),” on “Palm Oil And CalophyllumInophyllum Oil Are Potential Feed Stocks For Future Biodiesel In Compression Ignition Engines: A Review” volume 4, issue 5, September – October (2013), pp. 301-312. Impact factor(2013): 5.7731.
4. N.Upendra, B.Sidda Reddy, K.TirupatiReddy,**K.Ajay Kumar Reddy,** Published a paper in International journal “International journal of Engineering Sciences and Technology (IJEST)”, entitled as” Bending Analysis Of Composite Plates Using Higher Order Theory” volume 5, No. 10, Oct (2013), pp. 1757-1.
5. **K.L.Narasimhamu**, V.Venkatesh, Venkata Ajay Kumar.GPublished a paper in “International Journal Of Mechanical Engineering and Robotics” entitled as “ Analyzing Stress Concentration Reduction In Gear Box Cover And Fabrication”volume 2, No. 04, Oct (2013), pp. 395-399.
6. K.L.Narasimhamu, **V.Venkatesh**, Venkata Ajay Kumar.G Published a paper in “International Journal Of Mechanical Engineering And Robotics” entitled as “ Analyzing Stress Concentration Reduction In Gear Box Cover and Fabrication” volume 2, No. 04, Oct (2013), pp. 395-399.
7. V.NithashaDeepthi,**A.Hemantha Kumar**, Published a paper in International journal “Design Improvement and Analysis of Car Bumper and Frame Assembly” in Asian Academic Research Journal of Multidisciplinary.ISSN: 2319-2801, volume1, Issue 12, Aug 2013.Pgno.368-380
8. T.Nishkala, **M.Maruthi Prasad,** Published a paper in International journal “Non-Linear Finite Element Analysis of the Cold Rolling Process for Different Materials” in Asian Academic Research Journal of Multidisciplinary. ISSN: 2319-2801, volume1, Issue 12, Aug 2013.Pgno 381-394
9. **N.Deepthi**, P.Sivaiah, K.NagamaniPublished a paper in International journal “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis” in International Journal of Technology & Engineering Science.ISSN: 2320-8007, volume1, Issue 4, July 2013.
10. N.Deepthi, **P.Sivaiah**, K.Nagamani Published a paper in International journal “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis” in International Journal of Technology & Engineering Science.ISSN: 2320-8007, volume1, Issue 4, July 2013.
11. N.Deepthi, P.Sivaiah, **K.Nagamani** Published a paper in International journal “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis” in International Journal of Technology & Engineering Science.ISSN: 2320-8007, volume1, Issue 4, July 2013.
12. **P.Sivaiah**, V.Changal Reddy, K.V.Chalapathi. Published a paper in International journal “International Journal of Mechanical Engineering &Robotics Research (IJMERR),” on “Fabrication and study of Mechanical Properties and Microstructure of Al 6063-SICP MMC” volume 3, No 4. – October 2013, pp. 1429-1435. Impact factor (2013): 2.771. ISSN: 2278 – 0149.
13. P.Sivaiah, **V.Changal Reddy**, K.V.Chalapathi. Published a paper in International journal “International Journal of Mechanical Engineering &Robotics Research (IJMERR),” on “Fabrication and study of Mechanical Properties and Microstructure of Al 6063-SICP MMC” volume 3, No 4. – October 2013, pp. 1429-1435. Impact factor (2013): 2.771. ISSN: 2278 - 0149
14. P.Sivaiah, V.Changal Reddy, **K.V.Chalapathi**. Published a paper in International journal “International Journal of Mechanical Engineering &Robotics Research (IJMERR),” on “Fabrication and study of Mechanical Properties and Microstructure of Al 6063-SICP MMC” volume 3, No 4. – October 2013, pp. 1429-1435. Impact factor (2013): 2.771. ISSN: 2278 – 0149.

## *International Conferences:*

1. P.Bharadwaj, **B.Venkatesh**, T.Karthikeya Sharma Published a paper in International conference “Experimental Investigation on Semi-Adiabatic Diesel Engine using Water Emulsified Diesel as Fuel”, in International Conference on Association of Electronics & Computer Engineer – Institute of research & Journals (AECE-IRAJ), ISBN: 978-81-927147-9-0, 14th – July, 2013, Tirupati, India.
2. **B.Ashok Kumar**, C.Naga Kumar published a paper in International conference entitled as “Production of low cost Aluminium foams”in “International Symposium on Engineering and Technology (ISET - 2014)”, organized by Trinity College of Engineering and ResearchPune, India. on 09th – 10th January, 2014.
3. B.Ashok Kumar, **C.Naga Kumar** published a paper in International conference entitled as “Production of low cost Aluminium foams”in “International Symposium on Engineering and Technology (ISET - 2014)”, organized by Trinity College of Engineering and ResearchPune, India. on 09th – 10th January, 2014.
4. **A. Hemantha kumar**, M.Dastagiri, published a paper in International conference, entitled as “Experimental Investigation of EDM Parameters on aluminum and stainless steel.” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
5. B.Venkatesh, T.Karthikeya Shama, **A. Hemantha kumar** published a paper in International conference, entitled as “Experimental Investigation of Portable solar Distillation Processes” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
6. A. Hemantha kumar, **M.Dastagiri**, published a paper in International conference, entitled as “Experimental Investigation of EDM Parameters on aluminum and stainless steel.” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
7. **K.LNarasimhamu**, V.Venugopal Reddy, published a paper in International conference, entitled as “Optimal Buffer Allocation in Finite Closed Queining Networks Using Particle Swarm Optimization.” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
8. **K.LNarasimhamu**, V.Venugopal Reddy, C.S.P. Rao, published a paper in International conference, entitled as “Optimal Buffer Allocation in Tandem Closed Queining Network with Single Server using PSO.” In “International Conference on Advances in Manufacturing & Materials Engineering (ICAMME-14)”, organized by NIT, Surathkal, on 27th -29th March, 2014, pp- 2084-2089.
9. **B.Venkatesh**, D.Jyothi, D.Sasidhar Reddy, published a paper in International conference, entitled as “Experimental Investigation of a Diesel Engine using Sorghum oil as Alternative Fuel” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
10. **B.Venkatesh**, T.Karthikeya Shama, A. Hemantha kumar published a paper in International conference, entitled as “Experimental Investigation of Portable solar Distillation Processes” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.

## *national Conferences:*

1. **H.SureshBaburao,** M.Dastagirihas presented a paper entitled “Experimental Investigation On Engine Performance Of Diesel Engine Operating On Peanut Seed Oil Biodiesel Blends” in National Conference on Innovations in Engineering & Technology (NCIET-2013) at Gudlavalleru Engineering College, Gudlavalleru, A.P., India on 27th& 28th Dec- 2013.Pgno. 188 – 195. ISBN: 978-1-4276-5484-7.
2. H.SureshBaburao,**M.Dastagiri**has presented a paper entitled “Experimental Investigation On Engine Performance Of Diesel Engine Operating On Peanut Seed Oil Biodiesel Blends” in National Conference on Innovations in Engineering & Technology (NCIET-2013) at Gudlavalleru Engineering College, Gudlavalleru, A.P., India on 27th& 28th Dec- 2013.Pgno. 188 – 195. ISBN: 978-1-4276-5484-7.
3. **N.Deepthi**, P.Sivaiah, K.Nagamani has presented a paper entitled “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis ” in National Conference on Innovations in Mechanical Engineering at Madanapalli Institute of Technology &SciencesMadanapalli, A.P., India.21st – 22nd June, 2013.
4. N.Deepthi, **P.Sivaiah**, K.Nagamani has presented a paper entitled “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis ” in National Conference on Innovations in Mechanical Engineering at Madanapalli Institute of Technology & Sciences Madanapalli, A.P., India. 21st – 22nd June, 2013.
5. N.Deepthi, P.Sivaiah, **K.Nagamani** has presented a paper entitled “Optimization and Analysis of Parameters for Multi-Performance Characteristics in drilling of A16061 by using Taguchi Grey Relational Analysis and ANOVA Analysis ” in National Conference on Innovations in Mechanical Engineering at Madanapalli Institute of Technology & Sciences Madanapalli, A.P., India. 21st – 22nd June, 2013.

### **Training /Short Term Courses/ workshops attended**

1. **B.Ashok Kumar**, participated in two week faculty development program on “Computational methods for flow and heat transfer analysis – application of CFD tools” during 10th – 23rd March, 2014 organized by JNTUA College of Engineering, Ananthapuramu.
2. **K.Ajay Kumar Reddy**, participated in two week faculty development program on “Computational methods for flow and heat transfer analysis – application of CFD tools” during 10th – 23rd March, 2014 organized by JNTUA College of Engineering, Ananthapuramu.
3. **C.Ramanjaneyulu,** participated in three days faculty development program on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
4. **N.Keerthi**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
5. **V.Changal Reddy**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
6. **M.Mauthi Prasad**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
7. **V.Venkateh**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
8. **V.Venkatesh**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
9. **B.Venkatesh**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
10. **B.Venkateh** participated in three days International workshop on open Form CFD Software, ”Open Form a Free CFD Software” during 26th -29th Dec, 2013 conducted by RSCOE, Tathawade, Pune, India.
11. **N.Deepthi**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
12. **N.Deepthi** participated in two days national level workshop on “MATLAB Base advanced Optimization Techniques”, during 7-8 November, 2013 conducted by SreeVidyanikethan Engineering College, Tirupati.
13. **K.L.Narasimhamu** participated in five days national level workshop on “Computational Research Techniques in Design and Thermal Engineering (CRT 2013)” during 7th -11thAug, 2013 conducted by National Institute of Technology, Warangal.
14. **K.L.Narasimhamu** participated in three days national level workshop on “Modelling, simulation & Optimization of Manufacturing Systems”, during 17th - 19th October, 2013 conducted by National Institute of Technology, Warangal.
15. **K.L.Narasimhamu** participated in three days national level workshop on “Factory Physics”, during 31st Oct – 2nd Nov, 2013 conducted by National Institute of Technology, Warangal.
16. **K.Ajay Kumar Reddy**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organized by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
17. **K.Ajay Kumar Reddy** participated in three days national level workshop on “Modelling, simulation & Optimization of Manufacturing Systems”, during 17th - 19th October, 2013 conducted by National Institute of Technology, Warangal.
18. **B.Ashok Kumar**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 10th - 17th Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
19. **A.Rajehwari**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 10th - 17th Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
20. **G.LakhmiPadmaja**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 10th - 17th Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
21. **C.Venkatesh**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 10th - 17th Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
22. **T.NagehwaraSai**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 10th - 17th Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
23. **N.Kishore**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
24. **T.Nishkala**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
25. **M.Sunitha**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organised by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
26. **M.Sunitha**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
27. **K.VijayaLakhmi**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
28. **R.K.Sangamitha**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 26th – Aug, 02nd Sep, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
29. **M.Dastagiri**, participated in one week National workshop on “Optimization of Mathematical Models and Their Applications”, during 01st - 06th July, 2013 conducted by M.S.Ramiah Institute of Technology, Bangalore.
30. **M.Dastagiri**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 19th - 24th Aug, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
31. **K.V.Chalapathi**, participated in three days faculty development programme on “CFD Applications Using STARCCM+” during 16th – 18th January, 2014 organised by JNTUA College of Engineering, Pulivendula and CD- aapca, Banglore.
32. **K.V.Chalapathi**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 19th - 24th Aug, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
33. **K.Nagamani**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 19th - 24th Aug, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
34. **B.Kalpana**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 19th - 24th Aug, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
35. **S.Inayth**, participated in one week institutional workshop on “Training the teachers in communicative English”, during 19th - 24th Aug, 2013 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.

**Non-Teaching**:

1. **S.Venkataiah**, participated in two day staff training programme on “Advance IC Engines, Dismantling, Assembly and Maintenance” during 24th - 25th Nov, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
2. **T.Venugopal**, participated in two day staff training programme on “Advance IC Engines, Dismantling, Assembly and Maintenance” during 24th - 25th Nov, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
3. **ARamaiah**, participated in two day staff training programme on “Advance IC Engines, Dismantling, Assembly and Maintenance” during 24th - 25th Nov, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
4. **S.Venkataiah**, participated in one day staff development programme on “Safety and Maintenance Measures” during 24th Jan, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
5. **T.Venugopal**, participated in one day staff development programme on “Safety and Maintenance Measures” during 24th Jan, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
6. **S.Sekhar**, participated in one day staff development programme on “Safety and Maintenance Measures” during 24th Jan, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
7. **S.Subramanyam Sharma**, participated in one day staff development programme on “Safety and Maintenance Measures” during 24th Jan, 2013, conducted by SreeVidyanikethan Engineering College, Tirupati.
8. **A.Ramaiah**, participated in one day staff development programme on “Safety and Maintenance Measures” during 24th Jan, 2013, conducted by Sree Vidyanikethan Engineering College, Tirupati.

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES: RAJAMPET**

**(AUTONOMOUS)**

**Department of Mechanical Engineering**

# **R&D Activities: 2014-15**

## *International Journals:*

1. **N.Keethi**, M.Dastagiri, N.Deepthi Published a paper in International journal “International journal of Engineering & Research Technology (IJESRT)”, on “Minimization of the fire accidents in automobiles by Automatic Spraying of Fire Retards & Utilization of a Fire Fighting Robot” volume 3, issue 10. – October 2014, pp 529 – 539. Impact factor: 2.114, ISSN: 2277-9655.
2. N.Keethi, **M.Dastagiri**, N.Deepthi Published a paper in International journal “International journal of Engineering & Research Technology (IJESRT)”, on “Minimization of the fire accidents in automobiles by Automatic Spraying of Fire Retards & Utilization of a Fire Fighting Robot” volume 3, issue 10. – October 2014, pp 529 – 539. Impact factor: 2.114, ISSN: 2277-9655.
3. N.Keethi, M.Dastagiri, **N.Deepthi** Published a paper in International journal “International journal of Engineering & Research Technology (IJESRT)”, on “Minimization of the fire accidents in automobiles by Automatic Spraying of Fire Retards & Utilization of a Fire Fighting Robot” volume 3, issue 10. – October 2014, pp 529 – 539. Impact factor: 2.114, ISSN: 2277-9655.
4. **V.Changal Reddy**, P.Sivaiah, K.V.Chalapathi. R.K.Sangha Mitra published a paper in International journal “International Journal of Research in Advent Technology, (IJRAT),” on “Multi Response Optimization of EDM Process of OHNS Using Fuzzy Logic Approach” volume 2, No 11. – November 2014, pp. 9-14. E-ISSN: 2321-9637.
5. V.Changal Reddy, **P.Sivaiah**, K.V.Chalapathi. R.K.Sangha Mitra published a paper in International journal “International Journal of Research in Advent Technology, (IJRAT),” on “Multi Response Optimization of EDM Process of OHNS Using Fuzzy Logic Approach” volume 2, No 11. – November 2014, pp. 9-14. E-ISSN: 2321-9637.
6. V.Changal Reddy, P.Sivaiah, **K.V.Chalapathi**. R.K.Sangha Mitra published a paper in International journal “International Journal of Research in Advent Technology, (IJRAT),” on “Multi Response Optimization of EDM Process of OHNS Using Fuzzy Logic Approach” volume 2, No 11. – November 2014, pp. 9-14. E-ISSN: 2321-9637.
7. V.Changal Reddy, P.Sivaiah, K.V.Chalapathi. **R.K.Sangha Mitra**published a paper in International journal “International Journal of Research in Advent Technology, (IJRAT),” on “Multi Response Optimization of EDM Process of OHNS Using Fuzzy Logic Approach” volume 2, No 11. – November 2014, pp. 9-14. E-ISSN: 2321-9637.
8. **Venkata Ajay Kumar.G**, V.Venkatesh, published a paper in International journal “International Journal for Scientific Research & Development (IJSRD)”, on Modelling and Analysis of CNC Milling Machine Bed with Composite Material”, volume 2, issue 09, 2014, ISN(online): 2321-0613.
9. Venkata Ajay Kumar.G, **V.Venkatesh**, published a paper in International journal “International Journal for Scientific Research & Development (IJSRD)”, on Modelling and Analysis of CNC Milling Machine Bed with Composite Material”, volume 2, issue 09, 2014, ISN(online): 2321-0613.
10. N.Upenda, P.Moulali, **K.Ajay Kumar Reddy**,published a paper in International journal “International Journal of Engineering Research (IJER)”, on “Static and Model Analysis of Laminated Composite Hydraulic Cylinder”, volume 3, issue: Special 1, pp 140-143, 22nd March 2014, ISSN: 2319-6890(online), 2347-5013 (print).
11. **M.Dastagiri**, A.Hemantha Kumar published a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in “ELSEVIER ProcediaEngineering”97(2014)pp1551–1564,ISSN:1877-7058, doi:10.1016/j.proeng.2014.12.439.
12. M.Dastagiri, **A.Hemantha Kumar** published a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in “ELSEVIER Procedia Engineering” 97 ( 2014 ) pp 1551 – 1564, ISSN: 1877-7058, doi: 10.1016/j.proeng.2014.12.439.
13. **O.Y.V. Subba Reddy**, M.Maruthi Prasad, N. Jaya Krishna published a paper in International journal “International Journal of Engineering Research & Technology (IJERT)”, on “Improving the Surface Roughness of FDM Parts by using Hybrid Methods” vol.3, issue 12, Dec 2014. ISSN: 2278-0181.
14. O.Y.V. Subba Reddy, **M.Maruthi Prasad**, N. Jaya Krishna published a paper in International journal “International Journal of Engineering Research & Technology (IJERT)”, on “Improving the Surface Roughness of FDM Parts by using Hybrid Methods” vol.3, issue 12, Dec 2014. ISSN: 2278-0181.
15. O.Y.V. Subba Reddy, M.Maruthi Prasad, **N. Jaya Krishna** published a paper in International journal “International Journal of Engineering Research & Technology (IJERT)”, on “Improving the Surface Roughness of FDM Parts by using Hybrid Methods” vol.3, issue 12, Dec 2014. ISSN: 2278-0181.
16. V. Vikram Reddy, **Dr. P. Madar Valli**, A. Kumar, Ch. Sridhar Reddy published a paper in International journal “Journal of Advanced Manufacturing Systems”, on “Influence of Process Parameters on Characteristics of Electrical Discharge Machining of PH17-4 Stainless Steel” Vol. 14, No. 3 (2015) 1–14, DOI: 10.1142/S0219686715002833, on March 26, 2015.
17. V. Vikram Reddy, **P. Madarvalli**, Ch. Sridhar Reddy published a paper in International journal “Journal of Material Science and Mechanical Engineering (JMSME)”, on “Micro Hardness Measurements on Machined Surface of PHl7-4 Stainless Steel during EDM with Surfactant and Graphite Powder Mixed Dielectric” Print ISSN: 2393-9095; Online ISSN: 2393-9109; Volume 2, Number 3; April-June, 2015 pp. 243'247.
18. **N.Keerthi**, Venkata Ajay Kumar.G**,** N.Deepthipublished a paper in International journal“i-manager’s journal on Mechanical Engineering”, on “Design and Fabrication of Solar Powered Automatic Headlight Brightness Controller” volume 5. No2 Feb- April 2015.
19. N.Keerthi, **Venkata Ajay Kumar.G,** N.Deepthipublished a paper in International journal“i-manager’s journal on Mechanical Engineering”, on “Design and Fabrication of Solar Powered Automatic Headlight Brightness Controller” volume 5. No2 Feb- April 2015.
20. N.Keerthi, Venkata Ajay Kumar.G**, N.Deepthi**published a paper in International journal“i-manager’s journal on Mechanical Engineering”, on “Design and Fabrication of Solar Powered Automatic Headlight Brightness Controller” volume 5. No2 Feb- April 2015.
21. **P.Ravindranth Reddy**published a paper in”International Journal of Innovative Science, Engineering & Technology- IJISET - “ on “Mono Composite leaf Spring Design & Analysis by using FEA under Static Load Conditions”Vol. 2 Issue 3, March 2015.ISSN 2348 – 7968, pp – 798 – 802.
22. **N. Kishore kumar**, published a paper in international journal “International Journal of Science and Research (IJSR)” on “Modeling of human liver by using FEA, Vol 4, issue:03, March 2015, ISSN: (online) 2319-7064, ICV (2013): 6.14, impact factor: (2013): 4.438.
23. P.Sivaiah, **Venkata Ajay Kumar.G** published a paper in International journal“International Journal of Applied Engineering Research” on “Application of PCA Based Hybrid Taguchi Method for Multi-Response Optimization of CNC Milling Of Composite A16063+5% SiCp and A16063+10%SiCp” vol. 10 No. 24 (2015) ISSN: 0973-4562

## *International Conferences:*

1. **P.Salonica Sravani**, Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Multi Response Optimization Process Parameters in Electrical Discharge Machine of Al6061-6% TiB2 IN-ITU Metal Matrix Composite” in International Conference on Advances in Design and Manufacturing ICAD&M-14 organized by National Institute of Technology, Tiruchirappali, during 5th – 7th Dec 2014.
2. **M.Dastagiri**, A.Hemantha Kumar Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in International conference of 12th Global Congress on Manufacturing and Management GCMM -2014 organized by VIT, Vellore during 8th to 9th December 2014.
3. M.Dastagiri, **A.Hemantha Kumar** Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in International conference of 12th Global Congress on Manufacturing and Management GCMM -2014 organized by VIT, Vellore during 8th to 9th December 2014.
4. **H.Suresh Babu Rao**, Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Experimental Investigation on Engine Performance & Exhaust Emission Analysis of Diesel Engine Operating on Palm – Calophyllum inophyllum Double Biodiesel Blends” in International Conference on Environment and Energy organized by Institute of Science and Technology and JNTUH College of Engineering Hyderabad during 15th to 17th Dec-2014.
5. **V. Changal Reddy**, N.Deepthi**,** N.Jaya KrishnaAsst. Professor of Mechanical engineering,Annamacharya institute of technology and Sciences, Rajampet presented a paper on Multiple Response Optimization of wire EDM on Aluminum HE30 by using Grey Relational Analysis” in4thInternational Conference on “Materials Processing and Characterization (ICMPC)” during 14th – 15th March, 2015. Organized by Madanapalle Institute of Technology and Science”, Madanapalle
6. V. Changal Reddy, **N.Deepthi,** N.Jaya KrishnaAsst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on Multiple Response Optimization of wire EDM on Aluminum HE30 by using Grey Relational Analysis” in4thInternational Conference on “Materials Processing and Characterization (ICMPC)” during 14th – 15th March, 2015. Organized by Madanapalle Institute of Technology and Science”, Madanapalle
7. V. Changal Reddy, N.Deepthi**, N.Jaya Krishna**Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on Multiple Response Optimization of wire EDM on Aluminum HE30 by using Grey Relational Analysis” in4thInternational Conference on “Materials Processing and Characterization (ICMPC)” during 14th – 15th March, 2015. Organized by Madanapalle Institute of Technology and Science”, Madanapalle.
8. **A.Hemantha Kumar** Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Optimization of Cutting Parameters for AISI 1042 in Turning Operation by GA & PSO” in International conference on Mechanical and Manufacturing Engineering(ICMME-2015)” organized by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, during 2nd to 3rd April 2015.
9. **K.LNarasimhamu**, V.Venugopal Reddy, C.S.P. Rao, published a paper in International conference, entitled as “Optimal Buffer Allocation In Tandem Closed Queuing Network With Multi Servers Using PSO” inSAI, CDKP, ICAITA, NeCoM, SEAS, CMCA,ASUC, Signal – 2014 pp. 33–41, 2014. © CS & IT-CSCP 2014 DOI :10.5121/csit.2014.41104.
10. **K.LNarasimhamu**, V.Venugopal Reddy, C.S.P. Rao, published a paper in International conference, entitled as “Optimal of Buffer Allocation in manufacturing system using Particle Swarm Optimization.” in “International Review on Modelling &Simulations (I.RE.MO.S)”, vol. 8, N.2 April 2015. ISSN: 1974-9821.
11. **K.LNarasimhamu**, V.Venugopal Reddy, C.S.P. Rao, published a paper in International conference, entitled as “Optimal of Buffer Allocation in CONWIP based JIT Manufacturing system using SOS Algorithm”, in “Indian Technology Congress” by NIMHANS convention center, Bengaluru, 29th – 30th July 2015.

## *national Conferences:*

1. **N.Keerthi,** M.Dastagirihas presented a paper entitled “Minimization of the fire accidents in automobiles by atomic spraying of fire retards and utilization of a firefighting robot” in National Conference on Recent advances in mechanical engineering (RAME2K14) at Sri venkateswara College of Engineering & Technology, Chittor, A.P., India on 8th Aug- 2014. Pgno. 14.
2. N.Keerthi, **M.Dastagiri** has presented a paper entitled “Minimization of the fire accidents in automobiles by automic spraying of fire retards and utilization of a firefighting robot” in National Conference on Recent advances in mechanical engineering (RAME2K14) at Sri venkateswara College of Engineering & Technology, Chittor, A.P., India on 8th Aug- 2014. Pgno. 14.
3. **N.Nagaraju**, M.Dastagiri presented a paper on “Optimization ofEDM Process through Fuzzy – Taguchi Approach” in 2ndNational Conference in Innovations in Mechanical Engineering NCIME-14 organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 18th – 19th Dec 2014.
4. N.Nagaraju, **M.Dastagiri** presented a paper on “Optimization ofEDM Process through Fuzzy – Taguchi Approach” in 2ndNational Conference in Innovations in Mechanical Engineering NCIME-14 organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 18th – 19th Dec 2014.
5. **O.Y.V.Subba Reddy** presented a paper on “Improving the Surface roughness of FDM Parts using Optimization Techniques” in the 2ndNational Conference in Innovations in Mechanical Engineering NCIME-14 organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 18th – 19th Dec 2014.
6. **Venkata Ajay Kumar**.G, N.Keerthi, presented a paper on “Kinematic Analysis of a Serial Manipulator for In-Vessel Inspection Operations”, in National Conference “Advancements Simulation & Experimental Techniques” organized by Chandigarh University on 23rd – 24th March, 2015.
7. Venkata Ajay Kumar.G**, N.Keerthi**, presented a paper on “Kinematic Analysis of a Serial Manipulator for In-Vessel Inspection Operations”, in National Conference “Advancements Simulation & Experimental Techniques” organized by Chandigarh University on 23rd – 24th March, 2015.

### Training /Short Term Courses/ workshops attended

1. **A.Hemantha Kumar** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
2. **A.Hemantha Kumar** participated in one day workshop on “NAAC Awareness”, during 19th March, 2015 conducted by Madanapalle Institute of Technology and Science”, Madanapalle
3. **K.Ajay Kumar** Reddy, participated in one day workshop on “NAAC Awareness”, during 19th March, 2015 conducted by Madanapalle Institute of Technology and Science”, Madanapalle
4. **P.Ravindranath** Reddy participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9 September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
5. **M.Dastagiri** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
6. **G.V.Ajay Kumar** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
7. **N.Keerthi** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
8. **N.Deepthi** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
9. **D.Vishnu Vardhan Reddy,** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
10. **T.Nishkala** participated in two days national workshop on “Advanced Manufacturing Systems Simulation – Hands on Training”, during 8-9September, 2014 conducted by Sree Vidyanikethan Engineering College, Tirupati.
11. **K.LNarasimhamu** participated in two days orientation program on “MATLAB, Simulation & Related Tool Boxes for Engineering Education”, during 11th& 12th Sep. 2014 conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
12. **V.Venkateh**, Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet attended as a delegate in an International Conference on Advances in Design and Manufacturing ICAD&M -2014 organized by National Institute of Technology, Tiruchirappali, during 5th – 7th Dec 2014.
13. **V.Venkateh,** attended a Pre-Conference workshop on Bio – Medical Engineering organized by National Institute of Technology, Tiruchirappali, during 5th Dec 2014.
14. **G.Venkata Ajay Kumar**, Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet participated in winter 2014 Training Program on CAD using CATIA V6 organized by VIT, Vellore during 9th to 11th Dec 2014.
15. **K.Nagamani**, Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet participated in winter 2014 Training Program on CAD using CATIA V6 organized by VIT, Vellore during 9th to 11th Dec 2014.
16. **Dr. P. Madar Valli**, participated as a delegate in pre-conference workshop on “International Conference on Transformations in Engineering Education ICTIEE”, during 6th& 8th Jan 2015 organized jointly by BMS College of Engineering and Indo – Us Collaboration for Engineering Education (IUCEE) Bengaluru.
17. **Dr. P. Madar Valli**, participated in pre-conference workshop on “Outcome Based Education”, during 6th Jan 2015 organized jointly by BMS College of Engineering and Indo – Us Collaboration for Engineering Education (IUCEE) Bengaluru.
18. **V.Venkateh**, attended a workshop on “3D Printing & 3B Scanning (ICAM-3D)”, during 5th Feb, 2015 organized by Vel Tech University, Chennai.
19. **Dr. P. Madar Valli**, participated in one day workshop on “ABET Accreditation Essentials and Preparing for Accreditation” organized by Madanapalle Institute of Technology and Science”, Madanapalle on 24th Feb 2015.
20. **O.Y.V. Subba Reddy,** participated in three days’ training program on “Vibration Analysis and Condition Monitoring” organized by the Department of Mechanical Engineering, VNIT Visvesvarya National Institute of Technology, Nagpur during 18th – 20th march 2015.
21. **V.Venkateh,** attended a STTP on “3D Printing Experience” organized by National Institute of Technology, Warangal, during 5th– 9th May 2015.
22. **C. Naga Kumar,** attended a STTP on “3D Printing Experience” organized by National Institute of Technology, Warangal, during 5th– 9th May 2015.
23. **V.Venkateh,** attended a international workshop on “Advances in Micro Manufacturing” organized by College of Pune, Pune during 1st – 12th June 2015.
24. **G.Venkata Ajay Kumar,** attended a international workshop on “Advances in Micro Manufacturing” organized by College of Pune, Pune during 1st – 12th June 2015.
25. **N. Kishore Kumar,** attended a international workshop on “Advances in Micro Manufacturing” organized by College of Pune, Pune during 1st – 12th June 2015.
26. **B. Ashok Kumar,** attended a international workshop on “Advances in Micro Manufacturing” organized by College of Pune, Pune during 1st – 12th June 2015.
27. **G.Venkata Ajay Kumar** attended a program on “Problem Solving using Design of Experiments” organized by SQC & OR unit Indian Statistical Institute, Bangalore during 22nd – 24th July 2015.

**Non-Teaching**:

1. **S.Venkataiah**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
2. **T.Venugopal**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
3. **A.Ramaiah**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
4. **M.V. Subramanyam**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
5. **P.Penchaliah**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
6. **S.Showkat Ali**, participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.
7. **Y.Sudharshan Raju,** participated in two day staff training programme on “IC Engines, Dismantling, Assembly and Maintenance” during 17th - 18th Oct, 2014, conducted by Annamacharya Institute of Technology & Sciences, Rajampet.

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES: RAJAMPET**

**(AUTONOMOUS)**

**Department of Mechanical Engineering**

# **R&D Activities: 2015-16**

## *International Journals:*

1. V. Chandra Sekhar, **N.Jaya Krishna** published a paper in International journal “International Journal & Magazine of Engineering Technology, Management & Research (IJMETMR)”, on “Hot Runner Mould Design and Plastic Flow Analysis for CAP” vol.2, issue 7, July 2015. ISSN: 2348-4845.
2. C.V.Mohan, R.Lokanadham, **O.Y.V.Subba Reddy**, published a paper in International journal for Scientific Research & Development(IJSRD), on “Improving the Surface roughness of FDM Parts using Optimization Techniques” vol.3, issue 08, 2015, ISSN: 2321-0613. Pp 70-74.
3. **K.LNarasimhamu**, V.Venugopal Reddy, C.S.P. Rao, published a paper in “International Journal of Applied Engineering Research”, on “Optimization of Buffer Allocation In Tandem Closed Queuing Network Using Symbiotic Organisms Search”, ISSN 0973-4562 Volume 10, Number 5 (2015) pp. 12671-12681.
4. **A Hemanth Kumar,** G. subba Rao, T. Rajmohan**,** published a paper in “International Journal of Applied Engineering Research (IJAER)”,on “Experimental investigation and analysis of optimum cutting parameters on AISI1042 using CVD tool in turning operation”, ISSN 0973-4562, Volume 17, Number 5 (2015),pp. 3979-3982.
5. **B.Santosh Kumar,** Dr. A. Raji Reddy, C.Ramanjaneyulu, N.Jaya Krishnapublished a paper in “International Journal of Research in Mechanical Engineering (IJRME)”, on “Experimental Investigation of Vapor Compression Refrigeration system with Spiral Shaped Condenser” ISSN: 2349-3860, pgno: 11-14 vol: 02, issue: 02, 2015.
6. B.Santosh Kumar,Dr. A. Raji Reddy, **C.Ramanjaneyulu**, N.Jaya Krishnapublished a paper in “International Journal of Research in Mechanical Engineering (IJRME)”, on “Experimental Investigation of Vapor Compression Refrigeration system with Spiral Shaped Condenser” ISSN: 2349-3860, pg no: 11-14 vol: 02, issue: 02, 2015.
7. B.Santosh Kumar,Dr. A. Raji Reddy, C.Ramanjaneyulu, **N.Jaya Krishna**published a paper in “International Journal of Research in Mechanical Engineering (IJRME)”, on “Experimental Investigation of Vapor Compression Refrigeration system with Spiral Shaped Condenser” ISSN: 2349-3860, pg no: 11-14 vol: 02, issue: 02, 2015.
8. **D.Vishnu Vardhan Reddy**, N.Jaya Krishna, N.Bhaskar published a paper in “International Journal of Engineering Research & Technology (IJERT)”, on “Optimization of cutting paramenters in turning of En-19 by taguchi and Genetic Algorithm” ISSN: 2278-0181, pg no: 797-799 vol: 05, issue: 01, 2016.
9. D.Vishnu Vardhan Reddy, **N.Jaya Krishna**, N.Bhaskar published a paper in “International Journal of Engineering Research & Technology (IJERT)”, on “Optimization of cutting paramenters in turning of En-19 by taguchi and Genetic Algorithm” ISSN: 2278-0181, pg no: 797-799 vol: 05, issue: 01, 2016.
10. A.Nagaraja, **G. Suresh Babu,** published a paper in International journal “International Journal & Magazine of Engineering (IJMETMR)” on “Design and Optimization of Four Wheeler Rocker Arm for Neck and Hole” ISSN No: 2348-4845, Volume No: 2, Issue No: 7 (July) July 2015 pp 1296-1303.

## *International Conferences:*

1. **V. Venkatesh,** attended the international conference on Direct digital Manufacturing and Polymers (ICDDMAP), organized by Karnataka University, Dharwad from 28th – 31stOct 2015.
2. **R.K.Sangamithra**,N.Nagarajuattended the international conference on “Recent Trends in Mechanical Engineering (NECICRTME – 2015)”entitled as “Optimization Of Process Parameters In Repetitive Corrugation & Straightening (RCS) Of Mild Steel Using Taguchi Based Fuzzy Logic”organized byNarasaraopeta Engineering college, Narasaraopeta, during 20th – 21st Nov – 2015.
3. R.K.Sangamithra,**N.Nagaraju**attended the international conference on “Recent Trends in Mechanical Engineering (NECICRTME – 2015)”entitled as “Optimization Of Process Parameters In Repetitive Corrugation & Straightening (RCS) Of Mild Steel Using Taguchi Based Fuzzy Logic”organized byNarasaraopeta Engineering college, Narasaraopeta, during 20th – 21st Nov – 2015.
4. **K. Venkata Chalapathi**,C.Tirupataiah attended the international conference on “Recent Trends in Mechanical Engineering (NECICRTME – 2015)”entitled as “Design & Navigation Of Mobile Robot Using Fuzzy Logic”organized byNarasaraopeta Engineering college, Narasaraopeta, during 20th – 21st Nov – 2015.
5. K. Venkata Chalapathi, **C.Tirupataiah**attended the international conference on “Recent Trends in Mechanical Engineering (NECICRTME – 2015)”entitled as “Design & Navigation Of Mobile Robot Using Fuzzy Logic”organized byNarasaraopeta Engineering college, Narasaraopeta, during 20th – 21st Nov – 2015.
6. **G.V. Ajay Kumar**, D.Vishnu Vardhan Reddyattended the International Conference On “Advanced and Agile Manufacturing Systems (ICAM-2015)”entitled as “Taguchi-grey Relational based Multi-response Optimization of Machining Parameters in Turning” organized by Kamla Nehru Institute of Technology, sultanpur, UP. 0n Dec. 28th – 29th 2015.
7. G.V. Ajay Kumar, **D.Vishnu Vardhan Reddy**attended the International Conference On “Advanced and Agile Manufacturing Systems (ICAM-2015)”entitled as “Taguchi-grey Relational based Multi-response Optimization of Machining Parameters in Turning” organized by Kamla Nehru Institute of Technology, sultanpur, UP. 0n Dec. 28th – 29th 2015.
8. **A. Hemantha Kumar** presented a paper on “Experimental Investigation and Analysis of Optimum Cutting Parameters for AiSi1042 using Grey-Taguchi Analysis” in International conference on “Innovative Trends in Mechanical and AutomotiveEngineering(ITMAE-2016)” organized by MVSR Engineering College, Hyderabad during 11thto 12th Feb 2016.

## *national Conferences:*

1. **H. Suresh Babu Rao** has presented a paper entitled “Calophyllum Inophyllum Oil is Potential Feed Stock for Future Biodiesel in Compression Ignition Engines: A Review” in National Conference on “Energy Security ThroughNew & Renewable Energy Resources” conducted by The Institute of Engineers (India) in association with SE&T, Sri Padmavati Mahila Visvavidyalayam and S.V.U. College of Engineering, Tirupati. A.P., India on 27 – 29 July 2015.
2. **N.Nagaraju**attended the national conference on “Innovations in Mechanical Engineering (NCIME – 15)”entitled as “A Review on Smart Materials: Classifications, Applications”organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 23rd– 24th Dec – 2015.
3. **M.Suneetha,** N.Jaya Krishna, M.Maruthi Prasadhas presented a paper entitled “Design and analysis of Heavy Vehicle Chassis using Composite Materials” in national conference on “Innovations in Mechanical Engineering (NCIME – 15)” organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 23rd – 24th Dec – 2015.
4. M.Suneetha, **N.Jaya Krishna,** M.Maruthi Prasadhas presented a paper entitled “Design and analysis of Heavy Vehicle Chassis using Composite Materials” in national conference on “Innovations in Mechanical Engineering (NCIME – 15)” organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 23rd – 24th Dec – 2015.
5. M.Suneetha, N.Jaya Krishna, **M.Maruthi Prasad** has presented a paper entitled “Design and analysis of Heavy Vehicle Chassis using Composite Materials” in national conference on “Innovations in Mechanical Engineering (NCIME – 15)” organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 23rd – 24th Dec – 2015.

### Training /Short Term Courses/ workshops attended

1. **B. Venkatesh** participated in one week short term course on “Advanced IC Engine Technologies (AIET2015)”, during 31st Aug. to 04th Sep., 2015 conducted by IIT Madras, Chennai.
2. **M. Maruthi Prasad** participated in one day workshop on “Awareness on Washington Accord for Outcome Based Education”, during 04th Aug., 2015 conducted by JNTU College of Engineering (Autonomous), Ananthapuramu.
3. **V. Venkatesh,**has participated in the DST national seminar “Development of Tools using Biomaterials for Medical Application”, organized by R.V.R. & J.C College of Engineering, Chowdavaram, Guntur during 18th -19th Sep 2015.
4. **K.Ajay Kumar Reddy** has participated in two day workshop on “NBA Accreditation” organized by MITS, Madanapalle during 09th -10thOct. 2015.
5. **K.Ajay Kumar Reddy** has participated in the DST national seminar Development of Tools using Biomaterials for Medical Application, organized by R.V.R. & J.C College of Engineering, Chowdavaram, Guntur during 18th -19th Sep 2015.
6. **N.Kishore Kumar** has participated in the workshop on “Development, Manufacturing and Analysis of Advanced Composites (DMAAC-2015)”, organized by Department of Mechanical Engineering, SRM University, Chennai. During 19th Dec. 2015.
7. **Dr. P.Madar Valli** has participated in one day workshop on “Outcome –Based Education”, organized by G.Pulla Reddy Engineering College, Kurnool. On 10th Dec. 2015
8. **Dr. P.Madar Valli** has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
9. **Prof. N. Sivarami Reddy**, has participated in one workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
10. **K.L. Narasimhamu**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
11. **A. Hemantha kumar**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
12. **M. Maruti prasad**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
13. **R.V.N.R. Surya Prakash**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
14. **M. Dastagiri**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
15. **G. Suresh Babu**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
16. **K. Nagamani**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
17. **N. Kishore kumar**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
18. **G. Venkata Ajay Kumar**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
19. **B. Ashok Kumar**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
20. **P. Meramma**, has participated in one day workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
21. **N. Deepthi**, has participated in one workshop on “Implementation of quality Circles in Educational Institutions” organized by AITS, Rajampet. On 23rd Jan. 2016.
22. Prof. **N. Sivarami Reddy** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
23. **N. Jaya Krishna** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
24. **N. Kishore Kumar** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
25. **D. Vishnu Vardhan Reddy** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
26. **K. Ajay Kumar Reddy** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
27. **O.Y.V. Subba Reddy** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
28. **B. Venkatesh** has participated in two days’ workshop on “MATLAB, Simulink & Related Tool Boxes for Engineering Education” organized by AITS, Rajampet. On 30th – 31st Jan. 2016 in association with Capricot Technologies Pvt. Ltd.
29. **K.Ajay Kumar Reddy** has participated in two days’ workshop on “Testing and Characterization of Materials” organized by MITS, Madanapalle. On 04th – 05th March 2016.
30. **V. Venkatesh** has participated in two days’ workshop on “Testing and Characterization of Materials” organized by MITS, Madanapalle. On 04th – 05th March 2016.
31. **G. Venkata Ajay Kumar**, has participated in one week STTP on “Advanced engineering Optimization Through Intelligent Technique” organized by Sardar Vallabhai National Institute of Technology (SVNIT), Surat. on 21st – 25th March 2016.
32. **G. Venkata Ajay Kumar**, has participated in one day workshop on “Skill development programme” organized by Andhra Pradesh state Skill development corporation in connection with siemens Centers of excellence / technical skill development institutes on 18th April 2016.
33. N.Nagaraju, has participated in one day workshop on “wind energy conversion technologies” organized by JNTUA college of engineering, Ananthapuramu on 13th April 2016.
34. N.Nagaraju, has participated in one day workshop on “solar power technologies” organized by JNTUA college of engineering, Ananthapuramu on 20th April 2016.

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES: RAJAMPET**

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**Department of Mechanical Engineering**

# **R&D Activities: 2016-17**

## *International Journals:*

1. **Dr. N. Venkatachalapathi** published a paper in International journal “International Journal of Engineering sciences and computing (IJESC)”, on “Automatic Brake Failure Indicator and over Heating Alarm” vol.6, issue 7, July 2016. ISSN: 2250-1371.
2. **N. Keerthi**,N.Deepthi, N.Jaya Krishna published a paper in International journal “International Journal of Engineering and Techniques (IJET)”, on “Modelling and Analysis of Machining Characteristics of Metal Matrix Composites in Milling Process” vol.2, issue 4, July - Aug 2016. ISSN: 2395-1303, PP. 17 – 23.
3. N. Keerthi, **N.Deepthi**, N.Jaya Krishna published a paper in International journal “International Journal of Engineering and Techniques (IJET)”, on “Modelling and Analysis of Machining Characteristics of Metal Matrix Composites in Milling Process” vol.2, issue 4, July - Aug 2016. ISSN: 2395-1303, PP. 17 – 23.
4. N. Keerthi,N.Deepthi, **N.Jaya Krishna** published a paper in International journal “International Journal of Engineering and Techniques (IJET)”, on “Modelling and Analysis of Machining Characteristics of Metal Matrix Composites in Milling Process” vol.2, issue 4, July - Aug 2016. ISSN: 2395-1303, PP. 17 – 23.
5. **A Hemanth Kumar,** published a paper in “International Journal of Engineering Research& Applications (IJERA)”,on “Optimization of Process Parameters and Dielectric Fluids on Machining En31 by Using Topsis”, ISSN: 2248-9622,Volume 6, Issue 9, Sep (2016).
6. **A Hemanth Kumar,** published a paper in “International Journal forScientific Research & Development (IJSRD)”,on “Comparison of Optimum Cutting Parameters in Machining Die Steel (En 31) by Using Gray Relational Analysis and Topsis”, ISSN (Online)2321-0613, Volume 4, Issue 7, in Sep 2016.
7. **K. Sri Rami Reddy**, **N.Jaya Krishna,** Sk. Inayath published a paper in International journal “International Journal of Scientific Development and Research (IJSDR)”, on “Design Modification and Analysis of Wheel Fitting by Using Lock Mechanism” vol.1, issue 10, Oct 2016. ISSN: 2455-2631, PP. 1– 10.
8. **K. Sri Rami Reddy, N.Jaya Krishna, Sk. Inayath** published a paper in International journal “International Journal of Scientific Development and Research (IJSDR)”, on “Design Modification and Analysis of Wheel Fitting by Using Lock Mechanism” vol.1, issue 10, Oct 2016. ISSN: 2455-2631, PP. 1– 10.
9. **B.Venkatesh** published a paper in international journal “i-managers journal on Future Engineering& Technology” in “Performance Analysis of IC Engine with Bio-Blended-Diesel Using Muster Oil and Calophyllum Inophyllum Oil” vol.12 No1. Aug- Oct 2016
10. **A. Bhargav,** **Dr. N. Venkatachalapathi,** M.V.S. Deva Kumar published a paper in International journal “Australian Journal of Basic and Applied Sciences (AENSI)”, on “Machine Tool Scheduling Problem for Reconfigurable Manufacturing System (RMS)” 10(18) December 2016. ISSN: 1991-8178, EISSN: 2309-8414, Pg No: 176-180.
11. **G.V.Ajay Kumar,** K.LNarasimhamu, published a paper in “International Journal of i-manager’s journal on Mechanical Engineering”, on “Experimental Studies on Turning of Aluminium 6351 – T6Alloy Under Minimum Quantity Lubrication Technique”, Volume 7, Number 1 Nov.2016 – Jan 2017 pp. 16-20.
12. **Dr.Sadu Venkatesu**, **N. Nagaraju and N.Venkatachalapathi,** “Optimization of Process Parameters and Comparative Study on Bi-Metallic Joints Developed by High Temperature Nicrobrazing, Laser and GTAW Joining Processes”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, Elsevier Publishers.
13. **Dr. Sadu Venkatesu,** **N. Nagaraju** and N.Venkatachalapathi, “Optimization of Process Parameters and Comparative Study on Bi-Metallic Joints Developed by High Temperature Nicrobrazing, Laser and GTAW Joining Processes”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, Elsevier Publishers.
14. Dr. Sadu Venkatesu, N. Nagaraju and **Dr. N.Venkatachalapathi**, “Optimization of Process Parameters and Comparative Study on Bi-Metallic Joints Developed by High Temperature Nicrobrazing, Laser and GTAW Joining Processes”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, Elsevier Publishers.
15. **N. Nagaraju**, Dr. Sadu Venkatesu and N.Ujwala, “Optimization of Process Parameters of EDMProcess Using Fuzzy Logic and Taguchi Methods for Improving Material Removal Rate andSurface Finish”, International Conference on Emerging Trends in Materials and ManufacturingEngineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, ElsevierPublishers.
16. N. Nagaraju, **Dr. Sadu Venkatesu** and N.Ujwala, “Optimization of Process Parameters of EDM Process Using Fuzzy Logic and Taguchi Methods for Improving Material Removal Rate and Surface Finish”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, Elsevier Publishers.
17. N. Nagaraju, Dr.Sadu Venkatesu and **N.Ujwala**, “Optimization of Process Parameters of EDM Process Using Fuzzy Logic and Taguchi Methods for Improving Material Removal Rate and Surface Finish”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, NIT Trichy (IMME-2017), March 11-13, 2017. Materials Today, Elsevier Publishers.
18. **A.V.N.S. Kiran**, Dr.Sadu Venkatesu and Dr. N. Venkatachalapathi, “Control of Exhaust Emissions in FourStroke Compression Ignition Engine by Using Piston Coatings with Diesel Blends”, InternationalConference on Recent Innovations in Civil and Mechanical Engineering, IOSR Journal ofMechanical and Civil Engineering, DOI: 10.9790/1684-16053036771, IOSR Publishers.
19. A.V.N.S. Kiran, **Dr. Sadu Venkatesu** and Dr. N. Venkatachalapathi, “Control of Exhaust Emissions in Four Stroke Compression Ignition Engine by Using Piston Coatings with Diesel Blends”, International Conference on Recent Innovations in Civil and Mechanical Engineering, IOSR Journal of Mechanical and Civil Engineering, DOI: 10.9790/1684-16053036771, IOSR Publishers.
20. A.V.N.S. Kiran, Dr.Sadu Venkatesu and **Dr. N. Venkatachalapathi**, “Control of Exhaust Emissions in Four Stroke Compression Ignition Engine by Using Piston Coatings with Diesel Blends”, International Conference on Recent Innovations in Civil and Mechanical Engineering, IOSR Journal of Mechanical and Civil Engineering, DOI: 10.9790/1684-16053036771, IOSR Publishers.

## *International Conferences:*

1. **M.Dastagiri,**P.Srinivasa Rao, P.Madar Vallipresented a paper on “Optimization of EDM Process Parameters by using Heuristic Approach” in 2nd International Conference on Advances in materials and Manufacturing (ICAMM-2016) organized by Osmania University, Hyderabad and Defense Research & Development Laboratory (DRDL), DRDO, Ministry of Defense, Govt. of India, Hyderabad during 08th – 10th Dec 2016.
2. **M.Dastagiri,** P.Srinivasa Rao, P.Madar Valli presented a paper on “Topsis, Gra Methods for Parametric Optimization on Wire Electrical Discharge Machining (Wedm) Process” in 6thInternational & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)organized by College of Engineering, Pune, during 16th – 18th Dec 2016.
3. **O.Y.V. Subba Reddy,** Palaiam Siddikali, S.Mahammad Saleempresented a paper on “Improving the Dimensional Accuracy and Surface Roughness of FDM parts using Optimization Techniques” in International Conference on Recent Innovations in Civil & Mechanical Engineering (i-CAM2K16) organized by CMR Technical Campus, Hyderabad, during 10th – 11th Dec 2016.
4. O.Y.V. Subba Reddy,Palaiam Siddikali, **S.Mahammad Saleem**presented a paper on “Improving the Dimensional Accuracy and Surface Roughness of FDM parts using Optimization Techniques” in International Conference on Recent Innovations in Civil & Mechanical Engineering (i-CAM2K16) organized by CMR Technical Campus, Hyderabad, during 10th – 11th Dec 2016.
5. **Y.PoornaChandra Sekhar**, S.M. Saleemuddin,P.Merammapresented a paper on “Experimental Study and Identification of Optimal Cutting Parameters on Cutting Forces in Turning Using Taguchi Based Fuzzy Logic” in International Conference on Recent Innovations in Civil & Mechanical Engineering (i-CAM2K16) organized by CMR Technical Campus, Hyderabad, during 10th – 11th Dec 2016.
6. Y.PoornaChandra Sekhar, **S.M. Saleemuddin**,P.Merammapresented a paper on “Experimental Study and Identification of Optimal Cutting Parameters on Cutting Forces in Turning Using Taguchi Based Fuzzy Logic” in International Conference on Recent Innovations in Civil & Mechanical Engineering (i-CAM2K16) organized by CMR Technical Campus, Hyderabad, during 10th – 11th Dec 2016.
7. **Dr. N. Venkatachalapathi**presented a paper on “Categorization and Characterization of Fatigue Performance of S235 Structural Steel – A Study of NDT Technique”, in “International symposium for Research Scholars (ISRS 2016)” organized by IIT Madras, Chennai on Dec 21- 23, 2016
8. **Dr. S. Venkatesh**presented a paper on “Comparison for micro structural and mechanical properties if joints developed by high temperature brazing, GTAW and laser welding on AISI 316l Stainless steel for Specific application in nuclear power plant ”, in “International symposium for Research Scholars (ISRS 2016)” organized by IIT Madras, Chennai on Dec 21- 23, 2016
9. **N.Kiran Kumar**presented a paper on “Control of exhaust emissions in four stroke compression ignition engines by using piston coatings with biodiesel blends”, in International Conference on Recent Innovations in Civil & Mechanical Engineering (i-CAM2K16) organized by CMR Technical Campus, Hyderabad, during 10th – 11th Dec 2016.
10. **A. Hemantha Kumar** presented a paper on “Determination of optimum parameters for multiple performance Characteristics in EDM on Die Steel by using Taguchi and GRA” in JointInternational conferenceon “Intelligent Computing and Applications (ICICA-2016) & Power, Circuit and Information Technologies (ICPCIT-2016)” organized by D.Y. Patil College of Engineering, Pune-44 and IRD India, Bhubaneswar, Odisha during 20thto 22thDec2016.
11. **G.V.Ajay Kumar** presented a paper entitled “Multi – response Optimization of eng milling process parameters using combined AHP and VIKOR method” in International conference on “Innovations in information Embedded and Communication Systems (ICIIECS)” organized by Karpagam college of Engineering, Coimbatore during 17th – 18th March – 2017.
12. C.Ramanjaneyulu presented a paper entitled “Energy and Exergy Analysis in Process Plants: AComprehensive Survey” in International conference on”” Organized by VIT,
13. **Dr. N. Venkatachalapathi** published a paper in “International Conference on Emerging Trends in Materials and Manufacturing Engineering (IMME17) ”, on “Characterization Of Fatigued Steel States With Metal Magnetic Memory Method” NIT, organized by Tiruchirappalli during March 10-12, 2017.
14. **Dr. S. Venkatesh**presented a paper on “Comparison for micro structural and mechanical properties of GTA weld joints on various geometries of similar & dissimilar type of AISI 316l Stainless steel & Inconel 625 materials for industrial applications”, in “ International Conference on Emerging Trends in Materials and Manufacturing Engineering (IMME17) ”, organized by NIT, Tiruchirappalli during March 10-12, 2017.
15. **Dr. Sadu Venkatesu**, Rajesh Saxena, R. Ravi kumar, P. K. Chaurasia, S. Murugan and S. Venugopal, “Comparison of Microstructural and Mechanical properties of joints Developed by High Temperature Brazing, Gtaw and Laser Welding Methods on SS 316 L Stainless Steel For Specific applications in Nuclear Components”, Presented in 7 th International Symposium for Research Scholars at IIT Madras (ISRS-2016) December 21- 23, 2016.
16. **Dr. N. Venkata chalapathi**, Dr. Sadu Venkatesu, “Categorization and Characterization of Fatigue Performance of S235 Structural steel – A Study of NDT Techniques”, Presented in 7th International Symposium for Research Scholars at IIT Madras (ISRS-2016) December 21- 23, 2016.
17. Dr. N. Venkata chalapathi, Dr. **Sadu Venkatesu**, “Categorization and Characterization of Fatigue Performance of S235 Structural steel – A Study of NDT Techniques”, Presented in 7th International Symposium for Research Scholars at IIT Madras (ISRS-2016) December 21- 23, 2016.
18. Botta Prasad, **Dr**. **Sadu Venkatesu**, Bojja Nagendhra, Praveen Kumar and A. Satish, “Comparison of Microstructural and Mechanical Properties of GTA Weld Joints on Various Geometries of Similar and Dissimilar type of AISI type SS304, SS316 and Mild Steel Materials for Industrial Applications”, Presented in ICETEST-2017, SV University, March 18-20, 2017.
19. M. Maduri, **Dr.Sadu Venkatesu** and M. Maruthi Prasad, “Design and Development of Axial Flow Windmill for Household Applications”, Presented in ICETEST-2017, SV University, March 18-20, 2017.
20. M. Maduri, Dr. Sadu Venkatesu and **M. Maruthi Prasad**, “Design and Development of Axial Flow Windmill for Household Applications”, Presented in ICETEST-2017, SV University, March 18-20, 2017.

## *national Conferences:*

1. **G.V.Ajay Kumar,** K.LNarasimhamuhas presented a paper entitled “A Study on the Optimization Performance of PSO in Manufacturing Process” in 4th national conference on “Innovations in Mechanical Engineering (NCIME – 16)” organized by Madanapalle Institute of Technology and Sciences, Madanapalle during 21rd – 22th Oct. – 2016 ISBN : 9789385100-70-3.

### Training /Short Term Courses/ workshops attended

1. **V. Venkatesh** has participated in one week workshop on “Tissue Engineering: Biomaterials and Stem cells for Manufacturing of Biological Tissue” organized by IIT Hyderabad, Hyderabad on 18th – 23rd July 2016.
2. **N. Jaya Krishna** has participated in five days’ GAIN course on “Mechanics and Dynamics of Precision Machining Processes” organized by NIT, Warangal. On 25th – 29th July. 2016.
3. **G.V.Ajay Kumar** has participated in three days’ national workshop on “Advanced materials and Manufacturing”, organized by NIT, Surathkal on 28th – 30th Sep. 2016.
4. **D. Viashnu Vardhan Reddy** has participated in three days’ national workshop on “Advanced materials and Manufacturing”, organized by NIT, Surathkal on 28th – 30th Sep. 2016.
5. **V.Venkatesh** has participated in five days’ short term course on “Tribology of soft matters: Bio-Tribology micro systems and Automotive Applications”, organized by IITD, Delhi on 07th – 11th Nov. 2016.
6. **N.Jaya Krishna** has participated in two days FDP on “Design and Manufacturing of Composite Materials”, organized by Sree vidyanikethan Engineering College, Tirupati on 25th& 26 November 2016.
7. **M.Dastagiri** has participated in one week FIP on “Autodesk Nastran In-CAD” at Madanapalli Institute of Technology and Sciences, Madanapalli on 28th Nov – 03 Dec 2016.
8. **N.Jaya Krishna** has participated in three days international workshop on Bio-Materials, Cellular and Molecular Theranostics (IWBCMT) organized by VIT Vellore on 18th – 20th Jan 2017.
9. **K. Ajay Kumar Reddy** has participated in three days international workshop on Bio-Materials, Cellular and Molecular Theranostics (IWBCMT) organized by VIT Vellore on 18th – 20th Jan 2017.
10. **Y.Poorna Chandra Sekhar** has participated in one day workshop on Research Issues and Challenges on Sustainable Supply Chain Management organized by VIT Vellore on March 04th , 2017.
11. **N KISHORE KUMAR** A 5days QIP Short-course on Tribology of soft-Matters, Bio-Tribology, Micro-system and Automotive applications: Soft materials such as polymers, polymer-composites, polymer-gels, biological materials and organic coating are used in many applications where as tribology is primary concern. In the year Nov-2016 at IIT New Delhi.
12. **N KISHORE KUMAR** One day workshop on Mooc courses organized by IIT Madras at IIT Tirupathi. Date 30/06/2016

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# **R&D Activities: 2017-18**

## *International Journals:*

1. **N KISHIORE KUMAR**: A Journal Published in International Journal of Advance Research and Innovative Ideas in education entitled “Fabrication of Aluminum alloy 2219 by using Stir Casting Process and Comparison of Micro structural and Mechanical Properties of Alloy 2219 with the Industrial based fabricated Alloy”: year 2017
2. **M.DASTAGIRI** A Journal Published International Journal of Engineering, Science and Mathematics entitled Experimental Investigation of EDM Parameters on Aluminum & Stainless Steel 304” : year :2017 ,ISSN: 2320-0294.
3. **M.DASTAGIRI** A Journal Published International Journal of Engineering, Science and Mathematics entitled “l Effect of Hybrid Dielectric Fluid on the Performance of EDM Parameters.” Year;2017,ISSN:2320-0294
4. **AJAYA KUMAR REDDY K** A Journal Published International Journal of Research in advent technology entitled “Investigation of Optimum Cutting Parameters for End Milling ofH13 Die Steel using Taguchi based Grey Relational Analysis” 2321-9637
5. **O Y VENKATA SUBBA REDDY , A HEMANTHA KUMAR , G SURESH BABU , K AJAYA KUMAR REDDY** A Journal Published International Journal of Research in advent technology entitled “Investigation of Optimum Cutting Parameters for End Milling ofH13 Die Steel using Taguchi based Grey Relational Analysis year:2017 ,ISSN: 2321-963.
6. **N. Venkatachalapathi** International Journal Of Research In advent Technology entitled” Optimization of WEDM Process by using Modified TLBO Technique” ,year :2017, ISSN: 23219637
7. **P. Meramma, Dr. K. Raja Gopal, G. Eswar Balachandar, Dr. D. Ravikanth, &amp; Y.
Poornachandra Sekhar,** International Journal of Research (IJR) entitled “Fuzzy Grey Relational Analysis for the Identification of Optimum Influencing Cutting Parameters in Turning” year 2017 ;ISSN: 2348-6848
8. **Sivarami Reddy N, Dr. Ramamurthy DV and 3Dr. Prahlada Rao K** journal published *Manufacturing Technology Today,* Manufacturing Technology Today, entitled” simultaneous scheduling of machines and tools to minimise makespan in multi machine fms using new nature inspired algorithms” Year:2017 ;ISSN no; **0972-7396.**
9. **P.SALONICA SRAVANI, D.VISHNUVARDHAN REDDY** Journal published International journal of scientific research and review (IJSRR) entitled “Multi response optimization of process parameters in EDM using Soft Computing Techniques” year 2018; ISSN: 2279-543X.

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1. **N Sivarami Reddy** International journal of intelligent systems Technologies and applications,entitled “Simultaneous scheduling of jobs,machines and tools considering tool transfer times in multi-machine FMS using new nature-Inspired algorithms”.Year 2017
2. **G Amarnath, N. Venkatachalapathi,a** journal published in Australian journal of basic and applied sciences entitled “Vibration Analysis of CNT composites for aerospace applications” year 2017;ISSN no:1991-8414.
3. **M Suneetha, N. Venkatachalapathi** journal published in Australian journal of basic and applied sciences entitled”Design and analysis of Cryogenic refrigerator with Y-Jet Atomizer” Year:2017;ISSN no:1991-8178.
4. **A.V.N.S** Kiran journal published in international journal of computational engineering research(IJCER) entitled “ Performance and Emission characteristics of single cylinder diesel engine with safflower biodiesel blends” vol 07,year:2017:ISSN: no: 2250-3005.
5. **S Nagendra, A.N.V.S kiran, D.Swetha,S.M. Saleemuddin** published international organization of scientific research(IOSR) entitled “Performance of diesel engine fueled with biodiesel and analysis of combustion products” year:2017: ISSN no:2320-334X,vol 14.
6. **K.Ajay kumar Reddy** journal published in Australian journal of basic and applied sciences entitled” Tribological performance of Mg alloy by sssSpin coating method” year:2017.ISSN no:1991-8178.
7. **M.Suneetha , N. Venkatachalapathi published** A International journal & magazine of engineering technology management and research entitled “Modeling and analysis of railway wagon” vol 4: year:2017: ISSN no: 2348-4845.
8. **S.M. Saleemuddin** journal published International journal advance research and innovative ideas(IJARIIE) entitled “Design and modification of bicycle by using additional sprockets” vol 3: year 2017: ISSN no: 2395-4396.
9. **S.M. Saleemuddin published** International Conference on Recent Innovations in Civil and Mechanical Engineering, (IOSR) entitled “ ALiterature survey on various factors in dynamic cellular manufacturing system” Vol 14.year 2017: ISSN:2320-334X.
10. **Y. Poornachandra Sekhar** Published a journal of international conference on industrial engineering and operations management bandung, Indonesia entitled “ A cloud based architecture for automatic feature recognition in distributed manufacturing environment” year : 2018.
11. **G Eswar Balachandar** published international journal of research (IJR) entitled” fuzzy grey relational analysis for the identification of optimum influencing cutting parameters in turning “.year 2017: ISSN no:2348-6848.
12. **A Hemantha Kumar published** international journal of research in advent technology entitled “investigation of optimum cutting parameters for end milling of h13 die steel using taguchi based gray relational analysis” year 2017 : ISSN no: 2321-9637.
13. **A Hemantha Kumar published** international journal of research in advent technology entitled” comparison of optimum cutting parameters in machining die steel (en-31) by using gray relational analysin and topsis” year :2017 .
14. **M Suneetha and Dr N Venkata Chalapathy** has published international journal on “Design and Analysis of Cryogenic Refrigerator with Y-Jet atomizer” in oct 2017.
15. **G Amaranth and Dr N Venkata Chalapathy** has published international journal on “Vibration Analysis of CNT composites for aerospace applicatuions” in the year august 2017.
16. **N Kishore kumar** has published international journal (IJARIIE) on “Fabrication of aluminium alloy 2219 by using stir casting process and comparsion of micro structural and mechanical properties of alloy 2219 with the industrial based fabricated alloy” during the year 2017 with ISSNO: 2395-4396.
17. **N SIVA RAMI REDDY** has published international journal intelligent systems Technologies and Applications on “ Simultaneous scheduling of jobs,machines and tools considering tool transfer times in multi-machine FMS using new nature –inspired algorithms” in the year 2017.

## *International Conferences:*

## 1.nakka nagaraju: a paper published in “optimization of process parameters of edm process using fuzzy logic and taguchi methods for improving material removal rate and surface finish”IMME17 ,year 2017, Materials Today: Proceedings 5 (2018) : ISNN:7420–7428

##  2.Venkata Ajay Kumar G a paper published on title “Multi-response optimization of end milling process parameters using combined AHP and VIKOR method” in IEEE Sponsored International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS’17) , March 2017

##  3. nakka nagaraju: a paper published in “Optimization of Process Parameters and

##  Comparative Study on Bi-Metallic Joints Developed by High Temperature microbrazing, Laser and GTAW JOINING Processes” IMME17,2017, Pages 7096-7105

## S vijaya kumar reddy a paper published on titled “Experimental investtigation of air-swirl generation technique through intake manifold in CI Engine” in Recent innovations in mechanical engineering . year 2017. 9789383038510

## Venkatesh V a paper publised on titled “Innovative approach to develop 3D homogeneous composite scaffold” in 6th Asian Biomaterials congress .2017

## N. Venkatachalapathi a paper published on titled “Development of multivariate Quality control charts on Theoretical FMS Simulation “on ICETEST-2017 year 2017.

## N. Venkata chalapathi a paper published on titled “Experimental studies on Removal of Chromium from Aqueous solution by Biodegradable materials” on ICETEST-2017

## N. Venkatachalapathi a paper published on titled” Experimental investigations on mechanical properties of Epoxy based composites” on ICETEST-2017.

## G. Suresh Babu, M. Suneetha a paper published on titled” Fabrication of 3D carbon Micro-Electro Mechanical Systems” on NC'e-TIMES #1.0. March 2018.

## Venkata ajay kumar G A paper published on titled” Multi-objective optimization in WEDM of Inconel 750 ALLoY : application of topsis embedded grey wolf optimization

## Venkata ajay kumar .G has attended the international conference on “HOW to excel in research “precision,MESo,Micro and Nano engineering workshop series held on december 6th 2017 organized by the department of mechanical engineering NIT madras India.

## Mr Vishnu vardhan reddy has attended the international conference on “HOW to excel in research “precision,MESo,Micro and Nano engineering workshop series held on december 6th 2017 organized by the department of mechanical engineering NIT madras India.

## V Mallikarjuna has published international journal for research in applied science and engineering technology(IJRSET) entitled “fabrication of electrical steering mechanism” during the year oct-2017,issn no:2321-9653

## 15.C Thirupathaiah has published the international journal of advance research and innovative ideas in education entitled “effect of process parameters in cnc drilling of aluminium matrix composite by using gra and anova during the year 2017,issn no:2395-4396

## V Mallikarjuna has published journal of emerging technologies and innovative research(JETIR) entitled “Operation speculate on EPOXY resin reinforcement of aluminium oxdie and silicon carbide on glass fiber laminate” during the year sep 2018 ,issn no 2349-5162.

## Y. Poornachandra Sekhar has published international journal of research on “Fuzzy grey relational analysis for the identification of optimum influencing cutting parameters in turning” april 2017,pIssn no: 2348-6848,E issno:2348-795x

## Y. Poornachandra Sekhar has published international conference on industrial engineering and operations management bandung on “ acloud based architecture for automatic feature recognition in distributed manufacturing environment” in the year 2018

## *national Conferences:*

### Training /Short Term Courses/ workshops attended:

### **1.N KISHIORE KUMAR**: a 5 days qip short-course on single crystal x-ray diffraction: the course regarding crystal systems, symmetrics, point groups, space groups, miller indices, bravais lattices, scattering by x-rays, bragg’s law, laue equation, crystallization, crystal mounting, three dimensional intensity data collection, intensity integration, friedel’s law, space group determination, structure factor equation, structure solution, refinement and conformational analysis. In the year feb-2018.

### **2. G Venkata Ajay Kumar:** has attended the AICTE-ISTE Sponsored One week refresher course on “3D printing processing and applications” organized by brindavan institute of technology and science(bits-knl).

### **3.**N.Nagaraju: has attended the AICTE-ISTE Sponsored One week refresher course on “3D printing processing and applications” organized by brindavan institute of technology and science(bits-knl).

### **4.S.Vijaya kumar reddy** has attended indo-japan symposium workshop on thermal spray coating and applications jointly organized by indian institute of technology madras,nagaoka university of technology japan plasma giken co.ltd ,japan .

### **5. V.Venkatesh has participated in teqip workshop on “3D printing in medicine “ organized at iit hyderabad between july 16th-21st 2018.**

### **6. P Ravindranatha reddy** has participated in the faculty development programme by TECQIP\_III on industrial robotics from 9th to 21st july 2018 at jntua college of engineering,ananthapuramu.

### **7. S.Ramesh Babu** has participated in the faculty development programme by TECQIP\_III on industrial robotics from 9th to 21st july 2018 at jntua college of engineering,ananthapuramu.

### **8.Y.Poorna chandra sekhar** has participated in meity govt of india, sponsored a 6 days intensive faculty development program on “computational research techniques using MATLAB(CRT 2018)” organized by the E & ICT Academy,National institute of technology,warangal from 9th – 14th july 2018.

### **9. S.MD Jameel basha** has participated in meity govt of india, sponsored a 6 days intensive faculty development program on “computational research techniques using MATLAB(CRT 2018)” organized by the E & ICT Academy,National institute of technology,warangal from 9th – 14th july 2018.

### **10. Y.Poorna chandra sekhar** has participated in a 3days workshop on “fabrication and characterization of composite materials” organized by department of mechanical engineering srinivasa ramanujan institute of technology ,ananthapuramu on 7th-9th june 2018.

### **11.Mr Venkata ajay kumar .G** has participated in national workshop on research paper writing, GRIP 2018 organized by division of school science & languages and division of mathematics, school of advanced science(sas) ,vellore institute of technology chennai on 20th june 2018.

### **12.Kishore kumar nandyala** has participated ina short term course on “Single crystal X-Ray diffraction –theory and practice under the quality improvement programme of all india council for technical education,new delhi during 19th-23 february 2018.

### 13.**V.Venkatesh** has participated in the continuing education program on “Next generation 3D printing” organized by the department of mechanical engineering during 22nd-23rd february,2018.

### 14. **B Venkatesh** has participated faculty development programme(FDP101X) on foundation program in ict for education conducted by indian institute of technology bombay from march 8th to april 12th 2018.

### 15. **M Dastagiri** has participated faculty development programme(FDP101X) on foundation program in ict for education conducted by indian institute of technology bombay from march 8th to april 12th 2018.

### 16. **Venkata ajay kumar .G** has participated in the TEQIP-III sponsored one week short term training programme on “optimization in engineering-2018” organized at department of civil engineering of the institute during 14th to 18th may 2018 at nagpur.

### 17. **Ajay kumar reddy K**  has participated faculty development programme(FDP101X) on foundation program in ict for education conducted by indian institute of technology bombay from auguest 3rd 2017 to september 7th 2017 at iit bombay.

### **18.vijaya kumar reddy s**  has participated faculty development programme(FDP101X) on foundation program in ict for education conducted by indian institute of technology bombay from auguest 3rd 2017 to september 7th 2017 at iit bombay.

### **19. Ajay kumar reddy K**  has participated faculty development programme (FDP201X) on Pedagogy for online and blended teaching –learning process conducted by indian institute of technology bombay from sep 14th to oct 12th 2017 at iit bombay.

### **18.N Deepthi**  has participated faculty development programme(FDP101X) on foundation program in ict for education conducted by indian institute of technology bombay from auguest 3rd 2017 to september 7th 2017 at iit bombay.

### **19. N Deepthi**  has participated faculty development programme (FDP201X) on Pedagogy for online and blended teaching –learning process conducted by indian institute of technology bombay from sep 14th to oct 12th 2017 at iit bombay.

### **20. M Suneetha**  has participated faculty development programme (FDP201X) on Pedagogy for online and blended teaching –learning process conducted by indian institute of technology bombay from sep 14th to oct 12th 2017 at iit bombay.

### **21.V.Venkatesh** has participated in the course “Biomaterials and nanomedicine :two emerging topic in public healthcare in the 21st century” from 12th-16th sep 2017 held at the crystal growth centre,anna university, chennai.

### 22. **Y Poorna chandra sekhar** has participated in 2 day national workshop on “3D Scanning and 3D printing” organized on 17th and 18th march 2018 at vit ,VEllore.

### 23. **Y Poorna chandra sekhar** has participated workshop on “evolutionary algorithms and multi-criterion decesion making analysis using matlab with casde studies” conducted at department of manufacturing.School of mechanical engineering.VIT university, vellore on sep 16th 2017.

### 24.**O.Y.venkata subba reddy** has actively participitated in “rapid casting techniques” and won “build your 3D” contest at guru nanak institute of technology(gnit) hyderabad at IMIK technologies on dec 9th 2017.

### 25. **Venkata ajay kumar .**G has participated one week short term training program on mechanical manufacturing & monitoring using MATLAB,MMM-2017 during DEC 11th-16th 2017.

### 26. **vishnu vardhan reddy.D** has participated one week short term training program on mechanical manufacturing & monitoring using MATLAB,MMM-2017 during DEC 11th-16th 2017.

### **Non teaching:**

1. **T.Venugopal**, participated in nine days training programme on “Pipe and Structural fabrication” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
2. **T.Venugopal**, participated in eight days training programme on “Fitting foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
3. **A.Ramaiah**, participated in nine days training programme on “Fitting foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
4. **A.Ramaiah**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
5. **Y.Sudharshan raju**, participated in eight days training programme on “Fitting foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
6. **Y.Sudharshan raju**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
7. **M.V.Subramanyam**, participated in eight days training programme on “Fitting foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
8. **M.V.Subramanyam**, participated in nine days training programme on “Pipe and Structural fabrication” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
9. **M.V.Subramanyam**, participated in Five days training programme on “Welding foundation course” during 07th - 11th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
10. **S.Showkat Ali Sultan**, participated in nine days training programme on “Fitting foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
11. **S.Showkat Ali Sultan**, participated in nine days training programme on “Sheet Metal foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
12. **S.Showkat Ali Sultan**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
13. **P.Vemaiah**, participated in eight days training programme on “Fitting foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
14. **P.Vemaiah**, participated in nine days training programme on “Sheet Metal foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
15. **P.Vemaiah**, participated in five days training programme on “Welding foundation course” during 07th - 11th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
16. **S.Subramanyam**, participated in nine days training programme on “Fitting foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
17. **S.Subramanyam**, participated in eight days training programme on “Sheet Metal foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
18. **S.Subramanyam**, participated in eight days training programme on “Pipe and Structural fabrication” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
19. **S.Subramanyam**, participated in eight days training programme on “Quality control” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
20. **S.Venkataiah**, participated in nine days training programme on “Quality control” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
21. **S.Venkataiah**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
22. **S.Venkataiah**, participated in eight days training programme on “Sheet Metal foundation course” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
23. **S.Venkataiah**, participated in seven days training programme on “Fitting foundation course” during 07th - 13th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
24. **P.Bala Krishna**, participated in eight days training programme on “Quality control” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
25. **P.Bala Krishna**, participated in nine days training programme on “Fitting foundation course” during 07th - 15th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
26. **P.Bala Krishna**, participated in six days training programme on “Sheet Metal foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
27. **P.Bala Krishna**, participated in eight days training programme on “Pipe and Structural fabrication” during 07th - 14th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
28. **P.Bala Krishna**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.
29. **G.Penchalaiah**, participated in six days training programme on “Welding foundation course” during 07th - 12th June, 2018, conducted at Annamacharya Institute of Technology & Sciences, Rajampet by APSSDC SIEMENS.