

# RESUME

1. **Name** : **Dr. P. USHA SRI**
2. **Designation & Affiliation** : Professor,  
Dept of Mechanical Engineering,  
University College of Engineering (Autonomous)  
Osmania University, Hyderabad – 500 007  
Email id : emailushasri@yahoo.com ; Mobile No. : 9885899584
3. **Date of Birth** : March 19, 1972
4. **Areas of Specialization** : Turbo Machinery, CFD

5. **Academic Qualifications :**

S.No.	Degree	University /Institution	Division / Equivalent
1	B.E.( Mechanical Engineering )	University College of Engineering, Osmania University, Hyderabad	First Class with Distinction (1992)
2	ME (Turbo Machinery)	University College of Engineering, Osmania University, Hyderabad	First Class with Distinction (2000)
3	Ph.D.	Indian Institute of Technology - Madras, Chennai	CGPA=9.25 (2007)

6. **Experience Details:**

S. No.	Organisation	Designation	Period of Service
1	Mechanical Engineering Department, University College of Engineering, Osmania University, Hyderabad	Professor	From Jan 2012 to till date
2	Mechanical Engineering Department, University College of Engineering, Osmania University, Hyderabad	Associate Professor	From Jan 2006 to Jan 2012
3	Mechanical Engineering Department, University College of Engineering, Osmania University, Hyderabad	Assistant Professor	From August 1997 to Jan 2006.
4	Dr. B R Ambedkar Govt. Model Residential Polytechnic College for Women, Karimnagar, A P	Lecturer	From Jan 1996 to July 1997

7. **Publications ( As per Annexure 1) - 121**

International Journals	81
National Journals	01
International Conference	28
National Conference	11

8. **Research Projects**

- Principal Investigator for an R&D Project Sanctioned by AICTE (Rs 10.16 Lakhs)
- Principal Investigator for Project under DST-PURSE Programme (Rs 5.0 Lakhs)

- 9. Research Guidance :** Ph.D. Guidance: 03 Awarded & 08 ( Ongoing)  
M. E Projects : 91 Completed & 03 ( Ongoing)
- 10. Patent :** Patent for innovation is granted for the title of invention “Design of Nano-Magnetorheological Fluid Damper and Synthesis of the Nano-Magnetorheological fluid”for a term of eight years from 30June 2021. Patent number : 2021103737, Name of Inventors: P. Yagnasri, N. Seetharamaiah and P. Usha Sri.
- 11. Best Paper Award :** International Conference on Advancements in Aeromechanical Materials for Manufacturing ICAAMM-2020 organised by MLRIT, during 24-25 July 2020
- 12. Software Acquaintance:**
- a) **CAD and Analysis Software:** ANSYS-CFX, TascFlow, Turbogrid, Bladegen, AutoLisp, AutoCAD, I-deas, ANSYS-FLUENT, SciLab
- b) **Programming languages :** C, C++, Java, Servlets
- 13. Positions held in University**
- a) **Present :**
- 1) Member, Doctoral committee, Dept. of Mechanical Engg., University College of Engineering, OU.
- b) **Past :**
- 1) Hostel Warden (General) , Ladies Hostel, Osmania Univeristy (1998-99 )
  - 2) Faculty Incharge, Computer Lab of Mechanical Engineering Dept. UCE,OU for 5 years during 1997-2002.
  - 3) Faculty Incharge, CAD/CAM Laboratory of Mechanical Engineering Dept. UCE,OU during 2007-08
  - 4) Departmental Convenor for ME - PTPG Admissions 2008-09, UCE, OU
  - 5) Faculty Advisor for ME Turbomachinery Course during 2009-2011.
  - 6) Member, Library Committee, University College of Engineering, Osmania University
  - 7) Faculty Incharge, M.E. Examinations in Mechanical Engineering Dept. UCE, OU during 2007-08.
  - 8) Faculty Advisor-Foreign Students of College 2007-2014.
  - 9) Chairperson, BoS (Autonomous), Mechanical Engg. from May01, 2013-Sept26,2015.
  - 10) Chairperson, BoS (University), Mechanical Engg. From Oct26, 2016
  - 11) Faculty Incharge, Thermal Engineering Lab, Mechanical Engg.Department, UCE,OU.
  - 12) Convener, Committee on Sexual Harassment of Women at Work Place (CASH), University College of Engineering, OU.
  - 13) Member, Academic council of Vasavi College of Engineering.
  - 14) Governing body member for Radhe Krishna College for Women
  - 15) Director, CFD Center, University College of Engineering, OU from 2008.
  - 16) Head, MED, UCE, OU from 6<sup>th</sup> Feb 2017 to 6<sup>th</sup> Feb 2019.
- 14. Conferences/ Workshops/Events Organised**
- 1) organizing secretary for 62ndCongress of The Indian Society of Theoretical and Applied Mechanics (an International meet) during 15-18 December 2017.

- 2) organizing secretary for one week workshop on “Engineering Research Methodologies” (TEQIP-III sponsored) at MED, UCE, OU, Hyderabad during Dec 04 - 07, 2017.
- 3) organizing secretary for one week workshop on “Engineering Research Methodologies” (TEQIP-III sponsored) at MED, UCE, OU, Hyderabad during June 18-22, 2018.
- 4) Head of the Department for One day workshop on Design & Analysis of Mechanical Systems on 31st August, 2017
- 5) Organized a two day workshop on Powder Metallurgy during November 2017.
- 6) Organized a National Conference on Advances in Mechanical engineering and Nano Technology (AMENT) during 29th -30th June 2018.
- 7) Head of the Department for 10<sup>th</sup> Prof. Abid Ali Endowment Lecture by Dr. Palle Rama Rao, ARCI, on Feb 01, 2019.
- 8) Head of the Department for National Seminar on "Surface Coating Technologies" on 16th March, 2018, Sponsored by TEQIP-III.
- 9) Convener for One Day Workshop on “Better health awareness and life” ( Better Half) organised for women staff of University College of Engineering at UCE, Osmania University, Hyderabad on March 09, 2015.
- 10) Convener for One Day Workshop on “Awareness and empowerment of Women (AEW2K14)” organised for women staff of University College of Engineering at UCE, Osmania University, Hyderabad on March 10, 2014.
- 11) Technical Review committee member and organising committee member for SAROD-2013, Symposium on Applied Aerodynamics and Design of Aerospace Vehicles (SAROD), ASL, DRDO, Hyderabad, Scheduled during November 21-23, 2013.
- 12) Conducted a Meet of Women teaching faculty of University College of Engineering, Osmania University on the occasion of International Women’s Day on March 8, 2013.
- 13) Convenor for an International Conference on Reforms in Technical Education – Global Trends, ICORTE-2010, organised by Mechanical Engineering Dept., University College of Engineering, Osmania University, Hyderabad during August 27-28, 2010.
- 14) Convenor for Three day Training Programme on “Finite Difference Methods” , July 5-7, 2010 conducted at CFD Center, University College of Engineering, Osmania University, Hyderabad.
- 15) Convenor for Two day Training Programme on ANSYS-CFX, October 15-16, 2009 at University College of Engineering, Osmania University, Hyderabad.
- 16) Faculty advisor for National level technical Symposium MECHARENA-2009 organised during 27<sup>th</sup>Feb to 1<sup>st</sup> March 2009 at Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
- 17) Convenor for TEQIP sponsored Two day Community Service Programme on “AutoCAD-2007” conducted in collaboration with Academy of Design and Architecture, authorised AutoCAD resellers in the state during December 1-2, 2006.
- 18) Offered Software Training to BHEL (R&D) Project assistants in Ideas software in 1999.

### **13. Guest Lectures Delivered**

- 1) Delivered a Keynote lecture on “Computational Fluid Dynamics” at Two day Training Programme on ANSYS-CFX, October 15-16 , 2009, University College of Engineering, Osmania University, Hyderabad
- 2) Delivered a key note lecture on “CFD Theory and Applications” at Three day workshop on “The application of CFD Tools for Modeling and Analysis of Turbo Machinery Components” July 9-11, 2010 organised by Sreenidhi Institute of Science &Technology Ghatkesar, Hyderabad

- 3) Delivered a Guest lecture on “CFD-Thermal Engineering” at 2-Day workshop on “Advances in Thermal Engineering” Aug 13-14, 2010 organised by CMR College of Engineering & Technology, Kandlakoya, Hyderabad.
- 4) Delivered a Guest lecture on “CFD-Applications” at a Two day workshop on “Computational Fluid Dynamics Applications”, September 29- 30, 2010, organised by Vasavi College of Engineering, Hyderabad
- 5) Delivered a guest lecture on “Research Work – Thermal Engineering” at a work shop on Research Methodology, Feb 2-4, 2012 conducted by Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
- 6) Delivered Keynote address as Guest of honour for the annual day celebrations of Bharat Institute of Technology for Women on April 7, 2013.
- 7) Delivered guest lecture on CFD-Applications at National conference on Recent Innovations in Mechanical Engineering at MVSR College of Engineering, 21-22, Nov 2014.
- 8) Delivered lecture about the workshop as convener of One Day Workshop on “Better health awareness and life” ( Better Half) organised for women staff of University College of Engineering at UCE, Osmania University, Hyderabad on March 09, 2015.
- 9) Delivered guest lecture on introduction to CFD at a Workshop on Numerical Methods, organised at UCE, OU during 22-23, October, 2016.
- 10) Delivered guest lecture on Research in Turbomachinery at “Advances in Research and Innovations in Mechanical Engineering “ a workshop organised by Muffakham Jah College of Engineering and Technology, Hyderabad during 30-31, Jan and 1, Feb,2017
- 11) Delivered a guest lecture on “ Research Proposal and Report Writing”, Workshop on Research Methodology, organized by the Department of Mechanical Engineering, UCE, OU during June18-22, 2018.
- 12) Delivered guest lecture on “Computational Fluid Dynamics” at Training programme on “Finite Element Methods for Analysis and Design of Hydraulic Structures using ANSYS” during 02 – 14 September, 2019 organised by ESCI, Hyderabad.
- 13) Delivered guest lecture on “Flow through Centrifugal Compressors” at Refresher Course on “Advances in Thermal Engineering” during 18-11-2019 to 30-11-2019 organised by JNTUH College of Engineering Hyderabad, Kukatpally, Hyderabad, T.S.
- 14) Delivered guest lecture on “Flow through Axial Compressors” at Refresher Course on “Advances in Thermal Engineering” during 18-11-2019 to 30-11-2019 organised by JNTUH College of Engineering Hyderabad, Kukatpally, Hyderabad, T.S.
- 15) Delivered guest lecture on “Computational Fluid Dynamics” at Training programme on “Finite Element Methods for Analysis and Design of Hydraulic Structures using ANSYS” during 04 – 16 November, 2019 organised by ESCI, Hyderabad.
- 16) Delivered guest lecture on “CFD Analysis for thermal fluid flows” at Three Day National Level Webinar on “ADVANCES IN THERMAL SCIENCES & FLUID FLOWS” 24th-26th JULY 2020, Organized by Department of Mechanical Engineering MVSR ENGINEERING COLLEGE, Hyderabad, T.S.

#### **14. Academic Contributions :**

- 1) Head, Department of Mechanical Engineering, from 06-02-2016 to 06-02-2019
- 2) CBoS in Mechanical Engineering
- 3) Governing body member for RadheKrishna College for Women
- 4) Attended as member of Academic Council of VCE, on 18-06-2016.
- 5) As chair person BoS, introduced New scheme n syllabus for both PG and UG according to CBCS from the year 2015-16.

- 6) Introduced a new Theory Subject “Computational Fluid Dynamics” for P.G. Courses- M.E.(Turboamachinery & CAD/CAM) from academic year 2006-07
- 7) Introduced a new Lab Course “Computational Fluid Dynamics Lab” for P.G. Courses- M.E.(Turboamachinery) from academic year 2010-11.
- 8) Introduced a new Theory subject “Computational Fluid Flows” for B.E. Course in Mechanical Engineering from academic year 2006-07
- 9) Introduced a new Theory subject “Numerical Methods” for P.G. Courses- M.E.(Mechanical –all Specialisations) from academic year 2010-11

**15. Chairing Session in Intl/national conferences:**

1. Chaired a Technical Paper Presentation session at Two Days International E-Conference on Sustainable Development in Mechanical Engineering(SDME 2020) during October 30-31, 2020 organised by VNR Vignan Jyothi Institute of Engineering & Technology, Hyderabad.
2. Chaired a Technical Paper Presentation session at Sixth International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Nanaocomposites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP – 2018) 7-9 December 2018, Kottayam, Kerala, India”
3. Co-Chaired Technical Sessions at 62nd Congress of The Indian Society of Theoretical and Applied Mechanics ISTAM (an International meet) during 15-18 December 2017 at UCE, OU, Hyderabad.
4. Co-Chaired a Technical Paper Presentation Session at International Conference on Advances in Materials and Manufacturing (ICAMM-2016) held during December 8-10, 2016. The Conference was Jointly Organised by the Dept. of Mechanical Engineering, OUCE and DRDL, Hyderabad
5. Session Chaired in National Conference on Innovative Trends in Mechanical & Automobile Engineering (ITMAE – 2016) 11-12 February, 2016 organised by MVSR Engineering College, Nadergul, Hyderabad.
6. session chairperson, attended a National Conference on Recent Innovations in Mechanical Engineering at MVSR College of Engineering, 21-22, Nov 2014.
7. session chair for National Conference on Advances in Mechanical Engineering (AIM – 2012), organised by Dept. of Mechanical Engineering Vasavi College of Engineering, Hyderabad during October 11-12, 2012.
8. Co-chair for National conference on Recent Advances in Mechanical Engineering , 16 - 17<sup>th</sup> March 2012 organised at Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
9. Chaired a session in National conference at Vasavi College of Engineering-2009.
10. Chaired technical session (CFD ) for International conference “Indian Society of Theoretical and Applied Mechanics ISTAM” held during 27-30 Dec 2008, organised by UCE, OU, Hyderabad.

**Annexure 1**

**Details of Publications**

**International Journals**

- 1) B. Rama Krishna, M.V.S. Murali Krishna and P. Usha Sri “Influence of injection pressure on exhaust emissions of insulated diesel engine fuelled with biogas and biodiesel”,

- International Journal of Mechanical Engineering and Technology (IJMET), Volume 12, Issue 7, July 2021, pp. 23-32.
- 2) B. Rama Krishna, M.V.S. Murali Krishna and P. Usha Sri “Experimental investigations on exhaust emissions of diesel engine fuelled with biogas”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 12, Issue 7, July 2021, pp. 1-9.
  - 3) Kandari Lowkya, P. Usha Sri “Hydraulic Draft Tube Performance With Varying Geometric Configurations” International Research Journal of Engineering and Technology (IRJET) Volume 8, Issue 6, June 2021, <https://www.irjet.net/volume8-issue6>, S.No: 291
  - 4) P. Yagnasri, N. Seetharamaiah and P. Usha Sri Magnetorheological “Performance of Nano Magnetorheological (MR) Fluid Based on NiFe<sub>2</sub>O<sub>4</sub> Nanoparticles” Nano World Journal, Volume 7, issue 1, April 2021
  - 5) Jagadeshwar Kandula, P. Usha Sri, Ravinder Reddy. P, S.K.Gugulothu. Numerical and experimental evaluation of near wake cavitation flow around axisymmetric cavitators., Ships and offshore Structures, Taylor & Francis, 03 Mar 2021.
  - 6) Jagadeshwar Kandula , Usha Sri P , Ravinder Reddy P & S.K. Gugulothu “Experimental investigation of near-wake characteristics of hydrodynamic cavitating flow around circular cylindrical pins of different geometries with and without ultrasonic transducers”, Advances In Materials And Processing Technologies, Dec 2020 Taylor & Francis.
  - 7) G. Sayanna, M.V.S. Murali Krishna and P. Usha Sri “Experimental Investigations on Injection Timing Variation at an Injector Opening Pressure of 190bar on Semi- Adiabatic Diesel Engine with Exhaust Gas Recirculation”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 11, Issue 10, October 2020, pp. 19-27
  - 8) Jagadeshwar Kandula, P. Usha Sri , P. Ravinder Reddy and S.K. Gugulothu, “Numerical and experimental cavitation assessment of near-wake characteristics of hydrodynamic performance characteristics of cavitating flow with and without ultrasonic transducers”, Journal of Measurement, ELSEVIER, November 2020
  - 9) C. Hari Venkateswara Rao, P. Usha Sri and R. Ramanarayanan, “CFD Simulation Study on Shell Made of Composite Material when Subject to Temperatures Above 3000 Degrees Centigrade” Journal of New Developments in Chemistry Vol-3, Issue-1, pp. 32-40
  - 10) G. Sayanna, M.V.S. Murali Krishna, P. Usha Sri and M. Ravi Chandra, “Experimental Investigations on Exhaust Emissions of semi- Adiabatic Diesel Engine with Exhaust Gas Recirculation” Journal of Pollution Research Vol.39(3):2020 pp. 685–691
  - 11) G. Sayanna, M.V.S. Murali Krishna and P. Usha Sri “Experimental Investigations on Semiadiabatic Diesel Engine With Exhaust Gas Recirculation Fuelled with Tamarind Boidiesel” International Journal of Production Technology and Management (IJPTM) Volume 11, Issue 1, January-June, 2020, pp. 8–21, Article ID: IJPTM\_11\_01\_002 Journal Impact Factor (2019): 7.2150
  - 12) P. Yagnasri, Dr. N. Seetharamaiah and Dr. P. Usha Sri, “A review on methods of Nano particle synthesis and Nano Magnetorheological Fluid applications” International Journal of Research and Analytical Reviews (IJRAR) Volume 5, issue 3, July 2018. E-ISSN 2348-1269, P-ISSN 2349-5138.

- 13) N. Leela Prasad, P. Usha Sri, K. Vizayakumar, “*Life Cycle Assessment of a Wind based Electric Power Generation System: An Indian Perspective*”, International Journal of Modern Engineering and Research Technology (IJMERT) Volume 5, Special Issue, June, 2018
- 14) K. Hemalatha, P. Usha Sri, N. Seetaramaiah “*Experimental investigation of Magneto-rheological Fluid Clutch*”, International Journal of Scientific Research and review, Volume 7, issue 6, 2018, ISSN No: 2279-543X, pp. 333-343.
- 15) K. Hemalatha, P. Usha Sri, N. Seetaramaiah “*Performance Evaluation and Validation of Magneto Rheological Fluid Clutch*”, International Journal of Applied Engineering Research ISSN 0973-4562, Volume 12, Number 18 (2017) pp. 7572-7578
- 16) C. Hari Venkateswara Rao, P. Usha Sri, R. Ramanarayanan “*Nano Filler Composite Material Study For Aero Space Application*”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), 2017, e-ISSN: 2278-1684, p-ISSN: 2320-334X PP. 64-68 www.iosrjournals.org
- 17) K. Hema Latha. P. Usha Sri, N. Seetharamaiah, “*Design and Manufacturing Aspects of Magneto-rheological Fluid (MRF) Clutch*” Elsevier, Materials today: Proceedings 4 (2017) 1525–1534, 5th International Conference of Materials Processing and Characterization (ICMPC 2016).
- 18) K. Hema Latha. P. Usha Sri, N. Seetharamaiah, “*Magneto Static Analysis of Magneto Rheological Fluid Clutch*” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 13, Issue 3 Ver. V (May- Jun. 2016), PP 35-42
- 19) C. Hari Venkateswara Rao, P. Usha Sri, R. Ramanarayanan “*Experimental Study on Pan Based Composites with Multi Filler Material*”, International Journal of Engineering Technology ISSN:2319-9873, Volume 5, Issue 3, September, 2016.
- 20) C. Hari Venkateswara Rao, P. Usha Sri, R. Ramanarayanan “*Investigation Study on Silica Filler Pan Based Composite Laminates*”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) ,ISSN:2456-1290, Vol 1, Issue 4, August 2016.
- 21) D. Srikanth, Maddali V S Murali Krishna, **P. Usha Sri**, M. Ravi Chandra “*Experimental investigations on performance parameters and combustion characteristics of low heat rejection diesel engine with preheated cottonseed biodiesel with varied injection pressure*”, International Journal of Mechanical Engineering and Technology (IJMET) Volume 8, Issue 5, May 2017 ISSN Print: 0976-6340
- 22) D. Srikanth, M.V.S. Murali Krishna & **P. Usha Sri**, “*Influence of injection timing on performance parameters and combustion characteristics of high grade semi adiabatic diesel engine with cotton seed biodiesel*”, international journal of automobile engineering research and development (ijauerd) issn(p): 2277-4785; issn(e): 2278-9413 vol. 6, issue 2, apr 2016, 1-14
- 23) Ch. Indira Priyadarsini, T.M. Bindu, M V S Murali Krishna, Dr. P. Usha Sri “*Thermal Analysis of Piston Crown Coated with Copper*”, IJAR, Volume - 7 | Issue - 6 | June - 2017 | ISSN - 2249-555X | IF : 4.894 | IC Value : 79.96
- 24) Ch. Indira Priyarsini, Maddali V. S. Murali Krishna, P. Ushasri and Machiraju Aditya Seshu, “*Control of Aldehydes with Copper Coated Four Stroke Spark Ignition Engine*

*with Methanol Blended Gasoline with SCR Technique*”, International Journal of Current Engineering and Technology, Vol.6, No.3, June 2016.

- 25) K. Hema Latha, P. UshaSri and N.Seetharamaiah “*Magneto Static Analysis of Magneto Rheological Fluid Clutch*” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Volume 13, Issue 3 Ver. V May 2016, PP 35-42.
- 26) D. Srikanth, M.V.S. Murali Krishna and P. UshaSri, “*Influence of injection timing on performance parameters of high grade semi adiabatic diesel engine with cotton seed*”, JMIE Volume 6, Issue 4, ISSN: 2249-0558, April-2016
- 27) Ch. Indira Priyarsini , Maddali V. S. Murali Krishna , P.Ushasri and Machiraju Aditya Seshu, “*Control Of Pollution Levels of Four Stroke Spark Ignition Engine Fuelled With Methanol Blended Gasoline*”, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 5, Issue 4, April 2016.
- 28) D. Srikanth, M.V.S. Murali Krishna and P. UshaSri “*Influence of injection timing on performance parameters and combustion characteristics of high grade semi adiabatic diesel*”, TJPRC, Vol. 6, Issue 2, ISSN(P): 2277-4785; ISSN(E): 2278-9413 Apr 2016, 1-14.
- 29) D. Srikanth, M.V.S. Murali Krishna and P. UshaSri , “*Influence of preheating on performance parameters and combustion characteristics of high grade semi adiabatic diesel engine with cottonseed biodiesel*”, IJREAS VOLUME 6, ISSUE 3(March,2016), (impact factor –6.573)
- 30) D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri, “*Effect of Injection Pressure and Timing on Performance Parameters and Exhaust Emissions of High Grade Semi Adiabatic Diesel Engine with Cotton Seed Biodiesel*”, International Journal of Innovative Research in Science, Engineering and Technology ,Vol. 5, Issue 3, March 2016
- 31) D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri, “*Impact of Injection Pressure on Performance Parameters of High Grade Semi Adiabatic Diesel Engine with Cotton Seed Biodiesel*”, International Journal of Thermal Technologies, Vol.6, No.1 (March 2016)
- 32) D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri “*Experimental investigations on performance parameters of high grade semi adiabatic diesel engine with cotton seed biodiesel*”, International Journal of Mechanical Engineering and Technology (IJMET) Volume 7, Issue 1, Jan-Feb 2016, pp. 42-57
- 33) D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri “*Experimental investigations on exhaust emissions of high grade semi adiabatic diesel engine fuelled with cotton seed biodiesel*”, International Journal of Scientific & Engineering Research, Volume 7, Issue 1, January-2016 604 ISSN 2229-5518



- 34)D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri ,”*Effect of Injection Pressure On Performance Parameters And Combustion Characteristics Of High Grade Low Heat Rejection Diesel Engine With Preheated Cotton Seed Biodiesel*”, International Journal of Application or Innovation in Engineering & Management (IJAIEM) Volume 5, Issue 1, January 2016. ISSN 2319 – 4847
- 35)D. Srikanth, M.V.S. Murali Krishna and P. Usha Sri , “*Effect of injection pressure on performance parameters and combustion characteristics of high grade semi adiabatic diesel engine with cotton seed biodiesel*”, International Journal of Automobile Engineering and Engineering (IJAUE) Volume 3, Issue 1, Jan-June 2016, pp. 01-15
- 36)Maddali .V. S. Murali Krishna, Ch. Indira Priyadarsini, Y.Nagini, N.Saradha, P.Ushasri and D.Srikanth, “*Effect of spark igni tion timing on copper coated spark ignition engine with alcohol blended gasoline with catalytic converter*”, Proceedings of the ASME 2015 International Mechanical Engineering Congress and ExpositionMECE2015November 13–19, 2015, Houston, Texas, USA.
- 37)C. Hari Venkateswara Rao, P. Usha Sri, R. Ramanarayanan, Transition Temperature Behaviour in Pan Based Composite Materials with and without Sic Filler, International Journal of Mechanical and Industrial Technology ISSN 2348-7593 (Online) Vol. 3, Issue 2, pp: (1-6), October 2015.
- 38)K. Hema Latha,P. Usha Sri , N.Seetharamaiah and Qamer pasha, “*Design and FE Analysis of Magneto-rheological Fluid (MRF) Clutch for Automotive Applications*”, International Conference on Emerging Trends in Science Technology Engineering and Management 09th & 10th, October 2015.
- 39)N.Janardhan · Maddali V S Murali Krishna · P.Usha Sri · Influence of Injection Timing on Exhaust Emissions and Combustion Characteristics of Low Heat Rejection Diesel Engine with Air Gap Insulation, Internationa Journal of Current Engineering Technology 10/2015; 12 Oct 2015, Vol.5, No.5 (Oct 2015).
- 40)M V S Murali Krishna, T Ohm Prakash, P Ushasri, N Janardhan, P V K Murthy, Experimental investigations on direct injection diesel engine with ceramic coated combustion chamber with carbureted alcohols and crude jatropha oil, Elsevier, Renewable and Sustainable Energy Reviews 53 (2016) 606–628 (Impact Factor: 5.9). 09/2015; 53:606-628.
- 41)N.Janardhan · Maddali V S Murali Krishna, P.Ushasri Studies on influence of injection pressure on performance parameters of diesel engine with high grade insulated combustion chamber with crude jatropha oil operation, International Journal of Current Engineering Technology Vol.5, No.4, Aug 2015
- 42)N.Janardhan · Maddali V S Murali Krishna · P.Ushasri ·Studies on influence of injection pressure on exhaust emissions of diesel engine with high grade insulated combustion chamber with crude jatropha oil operation, International Journal of Current Engineering Technology 06/2015;
- 43)N.Janardhan · Maddali.V.S.Murali Krishna · P. Usha Sri · Studies on influence of injection pressure on performance parameters of diesel engine with medium grade low

- heat rejection combustion chamber, International Journal of Application or Innovation in Engineering and Management 06/2015; 4(5), 362-375.
- 44)N. Janardhan, Maddali V S Murali Krishna, P.Usha Sri, Experimental Investigations on Performance Parameters of Diesel Engine with Ceramic Coated Insulated Combustion Chamber with Jatropa Oil with Varied Injection Pressure, International Journal of Thermal Technologies 06/2015; 5(2),112-121.
- 45)P. Usha Sri and J. Deepti Krishna, Computational Analysis Of Centrifugal Compressor With Grooves On Casing, International Journal of Mechanical Engineering & Technology (IJMET). ISSN 0976 – 6340(Print), ISSN 0976 – 6359(Online), Volume 6, Issue 2, February (2015), pp. 01-09. Impact Factor (2015): 8.8293
- 46)Maddali V S Murali Krishna, D.Srikanth, P.Usha Sri, Studies on exhaust emissions of air gap insulated DI diesel engine fuelled with crude cotton seed oil and its biodiesel International Journal of British, (UK), ISSN: 2349–9419,. 12/2014; December, 1(4). 50–60
- 47)B. Hadya, P. Usha Sri, Experimental Evaluation of Environmental Friendly and Low Global Warming Refrigerants as an Alternative Option for Window Air Conditioning System, International Journal of Refrigeration, Air Conditioning, Heating and Ventilation. Dec 2014, Volume 1, Issue 3, ISSN: 2394-1952 , pp. 7-13.
- 48)M. V. S Murali Krishna, D.Srikath, P.Usha Sri, Studies on Performance Parameters of Di Diesel Engine with Low Grade LHR Combustion Chamber Fuelled with Cottonseed Biodiesel, International Journal of Current Engineering and Technology. 12/2014; 4(6), E-ISSN 2277 – 4106, P-ISSN 2347 – 516.
- 49)M. V. S Murali Krishna, D.Srikath, P.Ushasri, Studies on Performance Paramters of Di Diesel Engine with Medium Grade LHR Combustion Chamber Fuelled with Cottonseed Biodiesel, International Journal of Advances in Engineering & Technology, ISSN; 2231-1963 11/2014; 7(5),1443-1455.
- 50)M. V. S Murali Krishna, D.Srikath, P.Ushasri, Studies on Exhaust Emissions of Air Gap Insulated Di Diesel Engine Fuelled with Cotton Seed Biodiesel, International Journal of Current Engineering and Technology. 10/2014; 4(5), 3453-3458.
- 51)D. Srikanth, M.V.S. Murali Krishna And P.Ushasri, Studies on Exhaust Emissions of Ceramic Coated DI Diesel Engine Fuelled With Cotton Seed Biodiesel, International Journal of Mechanical Engineering and Technology (IJMET), ISSN 0976 – 6340(Print), ISSN 0976 – 6359(Online), Volume 5, Issue 9, September (2014), pp. 315-32. 09/2014; 5(9), 315-322. Impact factor 7.5377
- 52)P. Usha Sri and J. Deepti Krishna, Effect Of Tip Clearance on a Centrifugal Compressor, International Journal of Mechanical Engineering & Technology (IJMET). ISSN 0976 – 6340(Print), ISSN 0976 – 6359(Online), Volume:5, Issue:9, September (2014), pp. 379-384. Impact factor 7.5377
- 53)M V S Murali Krishna, D.Srikanth, P.Ushasri, Experimental Investigations of Comparative Performance and Exhaust Emissions of Cottonseed Biodiesel Fuelled DI Diesel Engine with Low Grade LHR Combustion Chamber, International Journal of Application or Innovation in Engineering & Management (IJAIEM), ISSN 2319 - 4847. 09/2014; 3(9), 321-331.

- 54) Anwer Abdulhussein Gatea and Usha Sri “Heat Transfer Rate Improvement of a Parabolic Trough Solar Collector” *Global Journal of Engineering Research and Technology*, ISSN 2249-3107, Volume 4, Number 2 Aug (2014), pp. 99-106. <http://www.ripublication.com>
- 55) T. Ohm Prakash, M.V.S. Murali Krishna and P. Usha Sri “Studies on Exhaust Emissions of Diesel Engine with Ceramic Coated Combustion Chamber with Carbureted Methanol And Crude Jatropha Oil” *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 5, Issue 6, June (2014), pp. 81-90. ISSN: 0976–6340, Impact factor 7.5377
- 56) Hadya, P. Usha Sri, Simulation of Air-Conditioning Compressor with Different Refrigerants and to Retrofit in Existing (HCFCs -22) Air-Conditioning Systems, *International Journal of Thermal Technologies*, ISSN: 2277-4114, Vol.4, No.2, June 2014, pp 83-87.
- 57) N. Janardhan, M.V.S. Murali Krishna, P.Ushasri, d P.V.K. Murthy Performance Evaluation of a Low Heat Rejection Diesel Engine with Jatropha Oil *International Journal of Scientific and Engineering Research* 06/2014; 11, 27-44. · 1.40 Impact Factor
- 58) N. Janardhan, M.V.S Murali Krishna and P. Usha Sri, Influence of Injector opening pressure on Exhaust Emissions in DI Diesel Engine with Three Levels of Insulation with Diesel Operation, *International Journal of Mechanical Engineering & Technology (IJMET)*, Volume 5, Issue 5, May (2014), pp. 54-61. Journal Impact Factor : 7.5377.
- 59) Hadya, P. Usha Sri Theoretical Analysis and Performance Comparison of Different Alternative Refrigerants to HCFC – 22, *International Journal of Scientific & Engineering Research IJSER*, Volume 5, Issue 5, May 2014 ISSN 2229-5518, pp 1505- 1508, Impact factor 3.2
- 60) M.V.S. Murali Krishna, N. Janardhan, P.Ushasri Influence of Injector Opening Pressure on Performance and Exhaust Emissions in DI Diesel Engine with Air Gap Insulated Piston and Air Gap Insulated Liner with Diesel Operation *International Journal for Advance Research in Engineering and Technology*. 04/2014; 2(4), 107-115
- 61) Ch. Indira Priyadarsini, M. V. S. Murali Krishna, P. Usha Sri, “Studies on Control of Aldehydes from Four Stroke Copper Coated Spark Ignition Engine with Methanol Blended Gasoline with Improved Design of Catalytic Converter” *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 5, Issue 4, April (2014), pp. 1-9. ISSN 0976 – 6340 (Print), ISSN 0976 – 6359 (Online)
- 62) Ch. Indira Priyadarsini, M.V.S. Murali Krishna, P.Ushasri, Control Exhaust Emissions of Four-Stroke Copper Coated Spark Ignition with Copper Coated Combustion Chamber with Methanol Blended Gasoline with Improved Design of A Catalytic Converter , *International Journal for Advance Research in Engineering and Technology*. 04/2014; 2(4), 7-13.
- 63) N. Janardhan, M.V.S Murali Krishna, P. Usha Sri and P.V.K. Murthy, Performance, Emission and Combustion Characteristics with Ceramic Coated Diesel Engine Fuelled with Jatropha Oil Based Biodiesel, *International Journal of Energy and Technology* 5(21) December (2013) pp. 1-13, ISSN: 2035-911X
- 64) D. Srikanth, M. V. S. Murali Krishna, P. Ushasri and P. V. Krishna murthy “Performance, exhaust emissions and combustion characteristics of Cotton seed oil based biodiesel in ceramic coated diesel engine”, *International Journal of Mechanical Engineering IJME*, ISSN(P): 2319-2240; ISSN(E): 2319-2259, Vol. 2, Issue 5, Nov 2013, 67-82. (International Academy of Science, Engineering and Technology)

- 65) Venkata Krishna Murthy, Ch. Indira Priyadarsini, M. V. S. Murali Krishna P. Usha Sri, and D. Basavaraju, Comparative Studies on Performance and Emission of Two Stroke and Four Stroke Copper Coated Spark Ignition Engines with Menthol Blended Gasoline, Proceedings of the ASME 2013 International Mechanical Engineering Congress and Exposition IMECE 2013, November 15-21, San Diego, California, USA, IMECE2013-62264
- 66) D. Srikanth, M. V. S. Murali Krishna, P. Ushasri and P. V. Krishna murthy “comparative studies on medium Grade low heat rejection diesel Engine and conventional diesel Engine with crude cotton seed Oil”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 2, Issue 10, October 2013, 5809-5828
- 67) D. Srikanth, M. V. S. Murali Krishna, P. Ushasri & P. V. Krishna Murthy " Performance Parameters of Ceramic Coated Diesel Engine Fuelled with Cotton Seed Oil in Crude form and Biodiesel form" International Journal of Automobile Engineering Research and Development (IJAuERD), October 2013, pp35-44, ISSN(Online):2277-4785 , ISSN(Print):2278-9413 , Impact Factor(JCC):4.8725
- 68) D. Srikanth, M. V. S. Murali Krishna, P. Ushasri & P. V. Krishna Murthy “Performance Evaluation Of A Diesel Engine Fuelled With Cotton Seed Oil In Crude Form and Biodiesel Form”, Journal of International Academic Research For Multidisciplinary Impact Factor 1.393, Volume 1, Issue 9, October 2013, pp 329-349
- 69) Y Raja Kumar, Dr. P. Usha Sri, CFD Flow Analysis of a Refrigerant inside Adiabatic Capillary Tube, International Journal of Engineering Research & Technology (IJERT) IJERT ISSN: 2278-0181 www.ijert.org IJERT V2IS90289 Vol. 2 Issue 9, September – 2013, pp 485-493.
- 70) N. Janardhan, M.V.S Murali Krishna, P. Usha Sri and P.V.K. Murthy Control of exhaust emissions of jatropha oil in crude form and biodiesel from high grade low heat rejection diesel engine, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN 2249-6890. 06/2013; Vol. 3, Issue 2, June 2013, 199-212.
- 71) Ch. Indira Priyadarsini, M.V.S. Murali Krishna, Y. Nagini, P. Usha Sri, P. V. K. Murthy, K. Kishor, “ Comparative Studies on Performance and Emissions of Four Stroke Copper Coated Spark Ignition Engine with Catalytic Converter with different Catalysts with Alcohol Blended Gasoline”, International Journal of Management, IT and Engineering (IJMIE), volume 3, Issue 5, May 2013, ISSN: 2249-0558, pp. 600-620
- 72) Ch. Indira Priyadarsini, K. Kishor, P. Usha Sri and M.V.S. Murali Krishna, Control of exhaust emissions from Spark Ignition Engine, American International Journal of Research in Science, Technology, Engineering & Mathematics (AIJRSTEM), ISSN 2328-3491, March-May 2013, issue 2, volume 2, pp 208-212
- 73) N. Janardhan, M.V.S. Murali Krishna, P.Usha Sri and P.V.K. Murthy, Comparative Studies on Performance, Emissions and Combustion Characteristics of Jatropha Oil in Crude Form and Biodiesel in a Medium Grade Low Heat Rejection Diesel Engine, International Journal of Innovative Technology and Exploring Engineering ISSN: 2278-3075, www.ijejournal.com Volume 2, Issue 5 April 2013, pp 5-15, Impact Factor 1
- 74) B. Hadya and P. Usha Sri, Analysis of Transport Properties for HydroFluorocarbon (HFCs) Refrigerant for Air –Conditioning System, International Journal of Advanced Research in Engineering and Technology (IJARET), ISSN 0976 - 6480 (Print), ISSN 0976 - 6499 (Online), Volume 4, Issue 3, April 2013, pp. 163-169, © IAEME: [www.iaeme.com/ijaret.asp](http://www.iaeme.com/ijaret.asp), Journal Impact Factor (2013): 5.8376 (Calculated by GIS) [www.jifactor.com](http://www.jifactor.com)

- 75) N. Janardhan, P. Usha Sri, M.V.S. Murali Krishna and P.V.K. Murthy, Exhaust Emissions and Combustion Characteristics of Jatropha Oil in Crude Form and Biodiesel of Low Heat Rejection Diesel Engine, International Journal of Soft Computing and Engineering Exploring Innovation, ISSN: 2231-2307(Online), PP. 91-95, volume 3, issue 1, March 2013 Available on <http://www.ijscce.org>, impact factor 1
- 76) N. Janardhan, M.V.S. Murali Krishna, P. Usha Sri and P.V.K. Murthy, Comparative Performance of High Grade Low Heat Rejection Diesel Engine with Jatropha Oil in Crude Form and Biodiesel Form, International Journal of Soft Computing and Engineering Exploring Innovation, ISSN: 2231-2307, volume 3, issue 1, March 2013, pp 91-95. Available on <http://www.ijscce.org>, impact factor 1.177
- 77) N. Janardhan, M.V.S. Murali Krishna, P. Usha Sri and P.V.K. Murthy, Performance Evaluation of a Low Heat Rejection Diesel Engine with Jatropha, International Journal of Engineering Inventions ISSN: 2278-7461, www.ijeijournal.com Volume 1, Issue 2 (September 2012) PP: 23-35. Impact Factor 1
- 78) N. Janardhan, P. Usha Sri, M.V.S. Murali Krishna and P.V.K. Murthy, Performance of Biodiesel in Low Heat Rejection Diesel Engine with Catalytic Converter, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-2, Issue-2, December 2012. pp 97-109, Impact factor 1.
- 79) M.V.S. Murali Krishna, N. Janardhan, P.V.K. Murthy, P. Usha Sri and Naga Sarada, A Comparative Study of the Performance of a Low Heat Rejection Engine with Three different Levels of Insulation with Vegetable oil Operation, Journal of *The Archive of Mechanical Engineering* Vol.LIX 2012, October 2012, Number 1, pp. 103-128, 10.2478/v10180-012-0006-1. Impact Factor 1.
- 80) N. Janardhan, M.V.S. Murali Krishna, P. Ushasri, P.V.K. Murthy, Performance Evaluation of a Low Heat Rejection Diesel Engine with Jatropha, International Journal of Engineering Inventions. 09/2012; 1(2), 23-35
- 81) N. Janardhan, M.V.S. Murali Krishna, P. Usha Sri and P.V.K. Murthy, Potential of a medium grade low heat rejection diesel engine with crude Jatropha oil, International Journal of Automotive Engineering and Technologies Vol. 1, Issue 2, pp. 1 – 16, June 2012, ISSN 2146-9067 Available online at [www.academicpaper.org](http://www.academicpaper.org), Impact factor 2.902

### **National Journals**

- 1) P. Usha Sri, G. Rama Murthy and V. Uma Maheshwar, Heat Transfer Analysis of Free convection of Non-Newtonian Power Law Fluid over a Vertical Plate with Constant Heat Flux, The Journal of The Institution of Engineers( India) -Chemical Engineering, Vol. 84, September 2003, pp. 25-32.

### **International Conferences**

- 1) Jagadeshwar Kandula, P. Usha Sri, Ravinder Reddy. P. Numerical Investigation of Cavitating Flows in the Step Nozzle. ICAAMM 2020., MLRIT, Hyderabad AIP proceedings, Volume: 2317, Issue 1 ,05 February 2021.
- 2) N. Leela Prasad, Shreyas M and P. Usha Sri, Comparative Analysis of Small and Large Capacity Sized On-grid, Roof-top Solar PV Systems – An LCA Approach, 3rd International Conference on Innovations in Mechanical Engineering (ICIME-2020) organised by Guru Nanak Group of Institutions, Hyderabad, 10th & 11th, Jan 2020. ISBN: 978-93-88808-71-2.
- 3) PSRK Nageswara Rao, P. Usha Sri and K. Vizayakumar, An Integration of Enterprise and System Dynamics Modeling Techniques to analyze the Manufacturing Enterprise, 3rd International Conference on Innovations in Mechanical Engineering (ICIME-

- 2020) organised by Guru Nanak Group of Institutions, Hyderabad, 10th & 11th, Jan2020. ISBN: 978-93-88808-71-2.
- 4) N. Leela Prasad, P. Usha Sri and K. Vizayakumar, Analysis of Nuclear Based Electric Power Generation System – AN LCA Approach, International Conference on Emerging Trends in Engineering & Technology-2020 (IConETech-2020) organised in virtual mode by Faculty of Engineering at The University of West Indies, St. Augustine, Trinidad and Tobago. June 1st to 5th, 2020.
  - 5) PSRK Nageswara Rao, P. Usha Sri and K. Vizayakumar, Modeling a Manufacturing Enterprise – A systemsapproach, International Conference on Emerging Trends in Engineering & Technology-2020 (IConETech-2020) organised in virtual mode by Faculty of Engineering at The University of West Indies, St. Augustine, Trinidad and Tobago. June 1st to 5th, 2020.
  - 6) P. Usha Sri and Chirla Jeevesh, Performance Analysis of a Horizontal Axis Wind Lens Wind Turbine, International Conference on Emerging trends in Engineering (ICETE) held during 22-23 March 2019 at University College of Engineering, Osmania University, Hyderabad.
  - 7) C. Syamsunder and P. Usha Sri, Computational Analysis of Cavitation Structures on a ship Propellers, International Conference on Emerging trends in Engineering (ICETE) held during 22-23 March 2019 at University College of Engineering, Osmania University, Hyderabad.
  - 8) N. Leela Prasad, P. Usha Sri, K. Vizayakumar, Life Cycle Assessment of a 100 kWp Solar PV based Electric Power Generation System in India, 2<sup>nd</sup> International Conference on Innovations in Mechanical Engineering(ICIME-2019) Jan 4-5, 2019 at Gurunanak Institute of Technology and Gurunanak Institutions Technical Campus, Hyderabad, Telangana.
  - 9) P. Usha Sri and NidamartyLaasya Priya, “Reviving And Analysing The Materials Used In Ancient Aircraft- Sundara Vimana” at Sixth International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Nanaocomposites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP – 2018) 7-9 December 2018, Kottayam, Kerala, India”
  - 10) Elumagandla Surendar, Prof. P Usha sri, Prof. Shaik Khadar vali, Dr. N Shyam Kumar, “Study on Heat Transfer Improvement Using Inserts of Different Geometrical Shapes in a Concentric Tube Heat Exchanger”, 1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS-2018), SBIT, Khammam, India 25-27 Oct. 2018
  - 11) Ch. Indira priyadarsini, Dr. M.V.S. Murali Krishna and Dr. P. Usha Sri, “Thermal and Structural Analysis of Four Stroke SI Engine Combustion Chamber”, 2nd International Conference on Innovative Trends in Engineering, Applied Science and Management ( ICITEASM-2018) organized at Osmania University Centre for International Programmes, Osmania University Campus, Hyderabad,Telangana, India on 20th May 2018, ISBN: 978-93-87433-24-3
  - 12) MVS Murali Krishna, Ch. Indira Priyadarsini, Y. Nagini, Naga Sharada, P. Usha Sri, D. Srikanth, Effect of Spark Ignition Timing on Copper Coated Spark Ignition Engine With Alcohol Blended Gasoline with Catalytic Converter, ASME International Mechanical Engineering Congress and Exposition, IMECE2015, November 13-19, 2015, Houston, Texas, USA.
  - 13) C. Hari Venkateswara Rao, R. Ramnarayanan and P. Usha Sri Experimental Investigation on Phenolic Based Composites with Filler Material, International Conference on Advanced Materials and Manufacturing Technologies (AMMT), organized by Dept. of Mechanical Engineering, JNTUH, during Dec 18-20, 2014.
  - 14) B. Hadya and P. Usha Sri, Simulation of Air – Conditioning system and transport properties for alternative refrigerants, International Conference on Advancements in Engineering and

Management, RITS ICAEM-2013, organised by Royal Institute of Technology and Science, Hyderabad during Feb 27-28, 2013.

- 15) B. Hadya, P. Usha Sri and B. Ajay Kumar, Flow Characteristics of a Refrigerant inside A Diabatic Capillary Tube with a Suction Line Heat Exchanger, International conference on Application of Fluid Engineering (CAFÉ – 2012) organized by GL Bajaj Institute of Technology and Management, Greater Noida, during September 20-22, 2012.
- 16) B. Hadya, P. Usha Sri and Suresh Akella, Comparative study of Eco-friendly Refrigerants in a Lower Capacity Air-Conditioning Systems, International conference on Mechanical and Automobile Engineering(ICMAE-2012), Bangkok, Sept 8-9, 2012.
- 17) B. Hadya, P. Usha Sri, Md. Azizuddin and Akella Suresh, A Comparative Study on the Performance and Environmental Impact of Alternative Refrigerants to Replace R-22, International Conference on Advancements in Engineering and Management”, RITS ICAEM-2012, organised by Royal Institute of Technology and Science, Hyderabad during Feb 28-29, 2012.
- 18) V. Uma Maheshwar and P. Usha Sri, Innovative Teaching-Learning Methods for Engineering Education, International Conference on Reforms in Technical Education – Global trends, ICORTE-2010, organised by Mechanical Engineering Dept., University College of Engineering, Osmania University, Hyderabad during August 27-28, 2010.
- 19) P. Usha Sri and C. Syam Sundar, Computational Analysis on Performance of a Centrifugal Pump Impeller, 4<sup>th</sup> International Conference on Fluid Mechanics and Fluid Power organized by IIT-Madras, December 16-18, 2010. ISBN: 978-81-910571-1-9
- 20) P. Usha Sri, V. Uma Maheshwar and C. Ganesh, Design And Analysis of Francis Turbine Casing, International Conference on Recent Advances in Mechanical Engg. (ICRAME2010) organised by Noorul Islam University, Kumaracoil, Kanyakumari Dist., Tamilnadu during April 8-9, 2010
- 21) P. Usha Sri, V. Uma Maheshwar and C. Syam Sundar, Computational Analysis of a Centrifugal Pump Impeller, International Conference on Recent Advances in Mechanical Engg. (ICRAME2010) organised by Noorul Islam University, Kumaracoil, Kanyakumari Dist., Tamilnadu during April 8-9, 2010
- 22) V. Uma Maheshwar, P. Usha Sri, M. Prashanth Kumar and A. Vijaya Kumar, Global Wind Energy Scenario- Role of Mechanical Engineering, International Conference on Recent Advances in Mechanical Engg. (ICRAME2010) organised by Noorul Islam University, Kumaracoil, Kanyakumari Dist., Tamilnadu during April 8-9, 2010.
- 23) P. Usha Sri and P. Chandra Sekhar, Computational Study of Effect of Chord in Low Solidity Vane and Conventional Vane Diffusers, International Conference on Computational Methods in Engineering and Sciences (ICCMES-2009) organised by CBIT, Hyderabad, during 8-10 Jan2009.
- 24) P. Usha Sri and N. Sitaram, Effect of Tip Clearance in a Low Speed Centrifugal Compressor, 5th International Symposium on Fluid Power, June 19-23, 2005, Houston, TX, FEDSM2005-77153.
- 25) P. Usha Sri and N. Sitaram, Tip Clearance Effects on Flow Field of a Centrifugal Compressor, International Conference on Theoretical Applied Experimental and Computational Mechanics organised by IIT- Kharagpur during Dec 28-30, 2004.
- 26) P. Usha Sri and N. Sitaram, Computational Study of Tip Clearance Effects in a Centrifugal Compressor, International Conference on Computational Methods organised by National University of Singapore, Singapore during Dec 15-17, 2004.
- 27) V. Uma Maheshwar, D. N. Reddy and Usha Sri, Small Wind Turbine Electrical Pump Systems for Rural Applications in India- A Renewable Energy option, International

Conference on Energy Management -beyond 2000 held at Lucknow during October 19-21, 2000 organised by The Institution of Engineers (India), U P State Centre, Lucknow.

- 28) V. Uma Maheshwar, D. N. Reddy and Usha Sri, Wind Energy in India – Future Prospects, International Conference on Energy Management -beyond 2000 held at Lucknow during October 19-21, 2000 organised by The Institution of Engineers (India), U. P. State Centre, Lucknow.

### **National Conferences**

- 1) N. Leela Prasad, P. Usha Sri, K. Vizayakumar, Life Cycle Assessment of Coal based Electric Power Generation System: A Case Study in India, National Conference on Air Conditioning, Heat Transfer and Energy Conservation 2018 (NCACHTEC 2018) at Sreyas Institute of Engineering & Technology, Nagole-Hyderabad during Aug 17-18, 2017.
- 2) C. Hari Venkateswara Rao, P. Usha Sri and R. Ramnarayanan, Experimental Investigation of on Phenolic Based Composites with Filler Material, National Conference on Fast Emerging Trends in Engineering and Technology (NCOFEET-2K15) organized by Bharat Institute of Engineering and Technology, during March 25-26, 2015.
- 3) Ch. Indira Priyadarsini, P.Usha Sri, M.V.S. Murali Krishna, K. Kishore and Y. Nagini, Flow Analysis of Emissions through Catalytic Converter, National Conference on Advances in Mechanical Engineering and Renewable Energy organized by CBIT, Hyderabad, during March 25-26, 2013.
- 4) D. Srikanth, P. Usha Sri, M.V.S. Murali Krishna, B. Rahul, K.Y. Deepak and S. Gururaj, Performance Parameters of Ceramic Coated Diesel Engine Fuelled with Crude Cotton Seed Oil, National Conference on Advances in Mechanical Engineering and Renewable Energy organized by CBIT, Hyderabad, during March 25-26, 2013.
- 5) Ch. Indira Priyadarsini, P.Usha Sri, Y. Nagini, K. Kishore, S. Narasimha Kumar and S. Nagasarada, Comparative Studies on Emissions of Two Stroke and Four Stroke Copper Coated Spark Ignition Engines with Methanol Blended Gasoline, National Conference on Advances in Mechanical Engineering and Renewable Energy organized by CBIT, Hyderabad, during March 25-26, 2013.
- 6) P. Usha Sri and Fathe Mohammad, CFD Analysis of Elbow Draft Tube, National Conference on Recent Advances in Mechanical Engineering (RAME 2012), organised by Mechanical Engineering Dept., University College of Engineering, Osmania University, Hyderabad during March 16-17, 2012.
- 7) B. Hadya, P. Usha Sri, V. Koteswara Rao and Akella Suresh, Performance Evaluation of R32 as Retrofit Refrigeration in Existing Air Conditioners in Indian Scenario, National Conference on Recent Advances in Mechanical Engineering (RAME 2012), organised by Mechanical Engineering Dept., University College of Engineering, Osmania University, Hyderabad during March 16-17, 2012.
- 8) P. Usha Sri and N. Sitaram, Computational Investigation of Flow in a Centrifugal Impeller with Chamfered Blade Tips: Effect of Tip Clearance, National Conference on CFD Applications in Power & Industry Sectors, organised by BHEL R&D, Hyderabad during Nov 17-18, 2006
- 9) V. Uma Maheshwar, Ravande Kishore and Usha Sri, Application of Quality Systems in Technical Education, National Conference on “Technical Education in the new Millennium – Management & Challenges (TECMANCH-2000)” organized during March 12-13, 2000 by University College of Engineering (Autonomous), Osmania University, Hyderabad



- 10) V. Uma Maheshwar, D N Reddy and P. Usha Sri Quality Management Systems for Technical Education, National Seminar on Restructuring of Technical Education System for Better Efficiency and Effectiveness organised by ISTE Chapter, V.R.Siddhartha Engineering College, Vijayawada during December 5-6, 1997
- 11) Suresh Pabboju, Usha Sri and D. N. Reddy, Optimisation of Parameters of Combined Cycle Power Plant, National Seminar on Renewable Energy Systems organised by Central Board of Irrigation and Power at Hyderabad during August 21-22, 1995

### **Lecture Notes**

Leela Prasad N., Usha Sri P., Vizayakumar K. (2020) Life Cycle Assessment of a 100 kWp Solar PV-Based Electric Power Generation System in India. In: Narasimham G., Babu A., Reddy S., Dhanasekaran R. (eds) Recent Trends in Mechanical Engineering. Pages 81-94. Lecture Notes in Mechanical Engineering. Springer, Singapore. [https://doi.org/10.1007/978-981-15-1124-0\\_7](https://doi.org/10.1007/978-981-15-1124-0_7).