

## **Bio-Data**

Name of the Candidate : K Ashok Reddy  
Father's Name : K Rama Reddy  
Date of Birth : 10<sup>th</sup> Feb, 1960  
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India

### **1. Educational Qualifications :**

Degree	Year of Pass	University	Class/Percentage of marks
High School	1977	M.A.O School, Aligarh Muslim University	1 <sup>st</sup> Class 85% Distinction
Pre- University	1978	Aligarh Muslim University	1 <sup>st</sup> Class 69%
B.Sc.,	1979-80	Nizam College , O.U.	Discontinued
B.E.,	1980-84	Campus College of Engineering A.U. Waltair	2 <sup>nd</sup> Class 58% Mechanical Engg.
M. Tech.,	1994-95	Indian School of Mines Dhanbad	1st Class-87% Fuel Engg.
Ph.D.,	2014	JNTU-Hyderabad	Mechanical Engg.

### **2.Work Experience( Industry & Academic ) :**

Year	Position	Work Place
1985-92	Assistant Engineer	Hyderabad Allywn Ltd , Sanathnagar, Hyderabad
1992-94	Teaching Assistant	Chaitnaya Bharathi Institute of Technolgy
1995-97	Assistant Manager	Puzzalona Machinery Fabricators, Hyderabad
1997-98	Associate Professor	M.Boji Reddy College Engineering for Women
1998-2000	-do-	PRRM College Engineering
2000-09	-do-	Vidya Joythi Institute Of Technology
2009-011	Professor	-do-
2011-14	Principal	Prof Rama Reddy College Of Engineering & Technology
2014-2015	Professor	Guru Nanak Intuitions Technical Campus
NOV 2015- till date	Professor	MLR Institute Of Technology



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### **3. Additional Details:**

a. Subjects Handled: Engineering Mechanics, Engineering Drawing, Mechanics of Solids, Design of Machine Elements, Heat Transfer, Power Plant Engineering and Thermal Engineering.

b. Laboratories Established & Handled: Heat Transfer, Thermal Engineering, Mechanics of Solids, Fluid Mechanics & Hydraulics Machines

c. Inhouse Projects Established: Heat Transfer and Thermal Engineering for Undergraduate and Post Graduate Students at Vidya Joythi Institute Technology and also at Prof Rama Reddy College Of Engineering & Technology, in addition to establishing project works on “Design of a 5 Ton Mobile Crane “ and “Combustion Characteristics of Agrowastes”.

### **Ph.D Research Work:**

“Heat Transfer Investigations in non-Newtonian Fluids in an Agitated Vessel using Paddle Impeller”.

A new type of heating equipment was designed and fabricated using kanthal elements to carryout heat transfer experiments. A theoretical model has been developed to correlate the heat transfer rates for wider range of fluids like pseudo plastic, shear thinning, shear thickening and dilatants etc which are generally used in chemical, food and cosmetic industry. Theoretical model developed for the heat transfer gives results in better agreement with experimental data compared to existing theoretical models for Newtonian and non-Newtonian fluids.(better than 20% improvement ).

### **Research Work at GNITC:**

“Heat Transfer Studies in S Shaped Coil Heat Exchanger Using Nano Fluids” approved under UGC Minor Research Project. Duration : Two Years from Nov2014-Nov2016, Sanction Amount: Rs 4,00,000=00.

### **Applied Major Research Project:**

1.Project Title: “**Design & Analysis of Low Cost Muffler for Internal Combustion Engine**”. Ministry of Forests, Environment & Climate Change , ONLine Submission on 26<sup>th</sup> March 2015 Project ID: 216/ES. Total Cost Of the project: Rs. 35.2 Lakhs. Acknowledgement letter has been Generated.

2.Project Title “**Analysis of Entropy Generation of Nano Fluids in Different Helical Coils**”, DST-SERB, Govt of India, New Delhi, ONLine Submission is under Progress. Total Cost Of the project: Rs. 29.5 Lakhs.

3.Project Title “**Analysis and Design of Exhaust Manifold of I C Engine Using Advanced Technology**”, AICET Project, under Progress. Total Cost :34.5 lakhs.

4.Project Title “**NDT Testing and Evaluation of Composite Aerospace Materials and Internal Combustion Engines Using Advanced Techniques**”, AICET Project, under Progress. Total Cost : 50-60 lakhs.

### **TRAINING COURSES, TEACHING – LEARNING – EVALUATION, TECHNOLOGY, PROGRAMMES, FACULTY DEVELOPMENT PROGRAMMES (NOT LESS THAN ONE WEEK DURATION)**

Sl. No	Programme	Duration	Organized by
1.	UGC-SPONSORED REFRESHER COURSE	12-11-2003 TO 03-12-2003	JNTU-HYDERABAD
2.	UGC-SPONSORED REFRESHER COURSE	28-3-2005 TO 16-4-2005	JNTU-HYDERABAD
3.	FDP	20-07-2010 TO 3-8-2010	VJIT, HYD-75
4.	FDP	24-7-2012 TO 5-8-2012	PRRCET, DIST MEDAK
5.	FDP	24-7-2014 TO 5-8-2014	GNITC, IBRAHIMPATNAM, RR DIST.
6.	FDP	16-7-2012 TO 21-7-2012	CVSR College of Engg. R R Dist.

7.	Invited Guest Lecture Date: 17-3-2002	Projection of Solids	PRRM CE, Shahbad R R Dist
8.	Invited Guest Lecture Date: 27-3-2002	Dynamics of Engg. Mechanics	PRRM CE, Shahbad R R Dist
9.	Invited Guest Lecture Date: 21-3-2004	Perspective Projections	Anurag College of Engg Kodad, Nalgonda Dist
10.	Invited Guest Lecture Date: 1-3-2006	Basics of Engineering Mechanics	CVSR College of Engg. R R Dist
11.	Invited Guest Lecture Date: 1-3-2006	Perspective Projections	CVSR College of Engg. R R Dist
12.	National Seminar 23-1-2009 & 24.1.2009	Advanced Materials: Characterization & Processing	Institution of Engineers Hyderabad
13.	Invited Guest Lecture Date: 27-2-2009	Basics of Engineering Drawing	PRRCET, DIST MEDAK
14.	Invited Guest Lecture Date: 14-3-2009	Basics of Engineering Mechanics	PRRCET, DIST MEDAK
15.	Invited Guest Lecture Date: 8-3-2010	Basics Thermodynamics	PRRCET, DIST MEDAK
16.	Invited Guest Lecture Date: 30-3-2010	Machine Drawing	PRRCET, DIST MEDAK
17.	Invited Guest Lecture Date: 8-3-2012	Concepts of Machine Drawing	Anurag College of Engg , Aushapur, R R Dist
18.	Invited Guest Lecture Date: 4-4-2012	Design of Machine Members	Anurag College of Engg , Aushapur, R R Dist
19.	ISTE WORKSHOP 11-12-2012 to 21-12-2012	Engineering Thermodynamics	CVSR College of Engg. R R Dist
20.	Invited Guest Lecture Date: 23-3-2014	Basics of Thermal Engineering	Anurag Engineering College, Kodad, Nalgonda Dist
21.	Invited Guest Lecture Date: 29-3-2014	Basics of Refrigeration Systems	Anurag Engineering College, Kodad, Nalgonda Dist
22.	ISTE WORKSHOP 20-5-2014 to 30-5-2014	Fluid Mechanics	CVSR College of Engg. R R Dist
23.	Invited Guest Lecture Date: 8-4-2014	Basics of Thermal Engineering	VJIT HYDERABD-75
24.	Invited Guest Lecture Date: 29-4-2014	Basics of Engineering Mechanics	VJIT HYDERABD-75
25.	Invited Guest Lecture Date: 2-4-2014	Heat Transfer to Non Newtonian Fluids	CVSR College of Engg. R R Dist
26.	Participated in National Workshop 11-9-2014 to 12-9-2014	Advanced Welding Techniques	GNITC, Ibrahimpatnam R R Dist
27.	Participation on 22-8-2015	Academic Leadership Development Program	IPE, Shamirpet Campus
28.	Invited Guest Lecture Date: 15-8-2015	Basics Thermodynamics	MLRIT, HYDERABD-43
29.	Invited Guest Lecture Date: 20-8-2015	Introduction To IC Engines	MLRIT, HYDERABD-43
30.	Invited Guest Lecture Date: 4-9-2015	Need for Learning Engineering Mechanics	CVSR College of Engg. R R Dist
31.	Invited Guest Lecture Date: 8-1-2016	Heat Transfer in Nano Fluids	Anurag College of Engg. Aushapur, Ghatkesar, R R Dist
32.	Invited Guest Lecture Date: 22-1-2016	Heat Transfer	ACE Engineering College R R Dist

## **List of Publications**

- 1.K Ashok Reddy, P Ram Reddy and M Bhanvanth Rao, “ Heat transfer studies in a circular tube using twisted inserts”, International Journal of Emerging Technology and Advanced Engineering ISSN 2250-2459, V1(11),2011 PP-1-3
- 2.K Ashok Reddy, “ Heat Exchange Rates Of Solar Refrigeration Systems Using Vacuum Tube Collector”, IOSR Journal of Mechanical and Civil Engineering e-ISSN: 2278-1684,p-ISSN: 2320-334X, V9(2), 2012, pp-19-23
3. K Ashok Reddy M Bhagvanth Rao P Ram Reddy “Experimental Estimation of Heat Transfer Coefficients Using Helical Coil in an Agitated Vessel”, International Journal of Engineering Trends and Technology- 3(2) (2012) p113 ISSN: 2231-5381
4. K Ashok Reddy M Bhagvanth Rao P Ram Reddy “Determination of Heat Transfer Cooling Rates in an Mixing Vessel Using Kanthal Heating Element” International Journal of Engineering Trends and Technology- 3(2) (2012) p193 ISSN: 2231-5381
5. K Ashok Reddy M Bhagvanth Rao P Ram Reddy “ Effect of Dean Number on Heating Transfer Coefficients in an Flat Bottom Agitated Vessel” IOSR Journal of Engineering 2(4) (2012) p945-951 ISSN: 2250-3021
- 6.K Ashok Reddy, P Ram Reddy and M Bhanvanth Rao Convective Heat Transfer Estimation In A Circular Tube With Enchantment Techniques IOSR Journal of Mechanical and Civil Engineering e-ISSN: 2278-1684,p-ISSN: 2320-334X, V10(4), 2013, pp-1-4
- 7.K Ashok Reddy, P Ram Reddy and M Bhanvanth Rao, “ Thermal Performance Of Heat Transfer Phenomena In A Heat Exchanger With Different Inserts”, International Journal of Emerging Technology and Advanced Engineering ISSN 2250-2459, V 3(3), 2014
8. K Ashok Reddy M Bhagvanth Rao P Ram Reddy “A Review of Nusslet Number under Laminar Flow Condition in Heat Exchanger” IOSR Journal of Mechanical and Civil Engineering 11(2) (2014) p76-80 ISSN : 2278-1684
- 9.Kasi Naga Santhosh Kumar.P, Jeevan Reddy.K, Manoj Kumar.R, Sravan Kumar Reddy.M, and Ashok Reddy K , “Design Analysis of Two Stroke I. C. Engine Powered by Compressed Air”, International Journal of Mechanical Engineering and Research, Vol 3 Issue 1 pp. 18-21, 2014, ISSN: 2277-8128
- 10.K. Ashok Reddy, M. Bhagvanth Rao, P. Ram Reddy, “ An Experimental Investigations of Nusselt Number for Low Reynolds Number in an Agitated Helical Coil”, International Journal Of Modern Engineering Research (IJMER) ISSN: 2249–6645 Vol. 4 Iss. 12 Dec. 2014 pp.35-39
- 11.K Ashok Reddy, M Bhagvanth Rao and P Ram Reddy, “Influence of Power Number on Nusselt Number for Newtonian and Non-Newtonian Fluids in an Un Baffled Agitated Vessel”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 6 Ver. VI (Nov- Dec. 2014), pp. 07-10
- 12.K Ashok Reddy, 2015, “Methods and Materials Characterization of Sodium Carboxymethyl Cellulose”, International Journal of Advanced Research Foundation, Volume 2, Issue 1, January 2015, pp 23-26.
- 13.K Ashok Reddy ,2015, “An Alternative Method to Evaluative Nusselt Number in a Helical Coil Heat Exchanger for non Newtonian Fluids ,” International Journal Of Advances in Engineering and Management (IJAEM) Volume 2, Issue 1, January - 2015
14. K Ashok Reddy, M Bhagvanth Rao and P Ram Reddy , 2015, “Analysis of Friction Factor for Newtonian and non-Newtonian Fluids in an Mechanically Agitated Vessel,” International Journal Of Advances in Engineering and Management (IJAEM) Volume 2, Issue 1, January - 2015.
- 15.K Ashok Reddy, “A Critical Review of Nusselt Number and Performance Characteristics of I.C. Diesel Engine Using Alternative BioFuels”, International Journal of Advanced Research Foundation, Volume 2, Issue 1, January 2015 pp 31-35.
- 16.S Sapthagiri , K Jayathirtha Rao , K Ashok Reddy and C Sharada Prabhakar, “ Comparison of Mechanical Properties on 15CDV6 Steel Plates by TIG- Welding with and without copper coated filler wires”, International Journal of Advanced Research Foundation , Volume 2, Issue 5, May 2015 .pp-16-20
17. K. Ashok Reddy, T. V. Seshi Reddy and S Satpagiri , “Heat Flux and Temperature Distribution Analysis of I C Engine Cylinder Head Using ANSYS “,International Journal of Advanced Research Foundation , Volume 2, Issue 5, May 2015 .pp-21-26.
- 18.K. Ashok Reddy, “ A Critical Review of Heat Transfer Studies in S Shaped Helical Coil Heat Exchanger Using Nano Fluids”, International Journal of Advanced Research Foundation, Vol 2 (9), Sept 2015, pp- 5-12
- 19.K. Ashok Reddy, “ A Critical Review of Transmission Loss and Acoustic Methods for Performance Evaluation of Muffler Part-1 ”, International Journal of Advanced Research Foundation, Vol 2 (10), Oct 2015, pp-1-5

- 20.K. Ashok Reddy, "A Critical Review Of Renewable Solar Energy Applications", IOSR Journal of Mechanical and Civil Engineering e-ISSN: 2278-1684,p-ISSN: 2320-334X, V15(11), 2015, pp- 20-24
21. K Ashok Reddy Experimental Verification of Convective Heat Transfer Rates in S Shaped Helical Coil Heat Exchanger ",International Journal of Advanced Research Foundation Vol 2 pp-1-4
- 22 . K Ashok Reddy .Experimental Investigation of Turbulence Flow Creation with Different Profiles in Intake Manifold of Diesel Engine International Journal of Emerging Technology and Advanced Engineering Vol. 6, Issue 2, February 2016 pp-244-249
- 23.K Ashok Reddy A Survey Of Entropy Generation In A Helical Coil Heat Exchanger International Journal of Innovative Technology and Exploring Engineering Volume-5, Issue-3, March 2016, pp-2910-2915
24. K Ashok Reddy A Critical Review Of Performance Analysis Of Nano Coolants In Diesel Engine International Journal of Engineering, Business and Enterprise Applications (IJEBA) Vol 15 Issue 1, December 2015-Februrary 2016 , pp 95-98
- 25.K Ashok Reddy Taguchi Approach To Evaluate Performance Parameters For Diesel & Petrol Engine International Journal of Current Engineering and Technology, Vol 6 No2 April 2016 pp 451-453
26. K ashok Reddy A Survey On Combustion Engine Using Compressed Natural Gas-Diesel Fuel System International Journal of Innovative Research in Science ,Engineering and Technology vol 5 Issue 3 march 2016, pp 3575-3579
- 27.K Ashok Reddy, A Crtical Review Of Entropy Generation in Internal Combustion Engine IPASJ International Journal of Mechanical Engineering (IJME) vol 4 Issue 3, March 2016, pp 1-4
- 28.K Ashok Reddy Performance Evaluation of Water Emulsion Fuel used in Internal Combustion Engine International Journal of Advance Engineering and Research Development vol. 3, Issue 3, 2016 pp 210-214
- 29.K Ashok Reddy, Exhaust Manifold Developmental Activates in Compression Ignition Engine International Journal of Emerging Technologies in Computer and Applied Sciences (IJETCAS) Vol 15 issue 1 December 2015-February 2016, pp 80-85
- 30.K Ashok Reddy , A Survey on Thermal Energy Storage Systems SSRG International Journal of Mechanical Engineering Vol 3 issue 3 March 2016, pp 1-3
- 31.K Ashok Reddy A Survey of Entropy Generation in a Helical Coil Heat Exchanger International Journal of Innovative Technology and Exploring Engineering vol 5 issue 11 April 2016 pp 1-3
32. K Ashok Reddy, "A Critical Review Of Entropy Generation Analysis in Micro Channel Using NanoFluids ", International Journal of Science & Engineering Development Research
33. K Ashok Reddy, "Developmental Practices Of Intake Manifold For Compression And Spark Ignition Engines", International Journal of Innovative Research in Science, Engineering and Technology, **Accepted in Press.**
34. K Ashok Reddy , "Performance Analysis and Evaluation of Solar Still System", International Journal of Emerging Technologies in Computer and Applied Sciences **Accepted in Press.**
35. K Ashok Reddy, "A Review of Heat Transfer Studies for Shell & Tube Heat Exchangers", International Journal of Science & Engineering Development Research **Accepted in Press.**

### **Conference Papers**

- 1.Dr K Ashok Reddy, "A Critical Review on Acoustic Methods & Materials of a Muffler" © 2016 Elsevier Ltd. Materials Today: Proceedings00, International Conference on Advancement of Aero Mechanical Materials, ICAAMM-2016, held on 7-9<sup>th</sup> July 2016 at MLR Institute of Technology, Dun gel, Hyderabad-43, Telaganna State, India. **Accepted in Press**
- 2.Dr K Ashok Reddy, "Non-Destructive Testing, Evaluation Of Stainless Steel Materials SS304L", © 2016 Elsevier Ltd. Materials Today: Proceedings00, International Conference on Advancement of Aero Mechanical Materials, ICAAMM-2016, held on 7-9<sup>th</sup> July 2016 at MLR Institute of Technology, Dun gel, Hyderabad-43, Telaganna State, India. **Accepted in Press**

**Date :23rd July 2016**

**( Dr. K. Ashok Reddy )**