

RESUME

Name: Dr. Chintu Janardhana Rao

Employee ID: A5MEC00T01

Designation: Professor & Head of the Department

Department: Mechanical Engineering, Aditya Institute of Technology and Management, K.Kotturu, Tekkali-532201, Srikakulam Dist, Andhra Pradesh



Date of Birth: 05-01-1966

Father Name: Apparao (Late)

Mother Name: Lakshmi Devi

Reservation Category (If any): OBC (BC-D)

Address: Koyyana Vari Thota, Near Sai ITI, Arasavilli, Srikakulam-532401, Andhra Pradesh

Mobile Number: 9440416577

Email id: cjrao1966@gmail.com

Date of joining in the institution: 08-09-2004

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph.D (Mech. Eng.)	A.U., Visakhapatnam		2012
M.E (Production))	M.S.U. of Baroda	FIRST Class	1992
A.M.I.E. (Mech. Eng.)	I.E.(India)	FIRST class	1989

Total Years of Experience (Teaching/Industry): 29 Years

Period		Organization/Institution	Designation
Mar 2015	Till Date	AITAM, Tekkali	Professor & Head
Oct 2014	Feb 2015	AITAM, Tekkali	Professor & Head and Controller of Examinations
Nov 2013	Sep 2014	AITAM, Tekkali	Professor & Controller of Examinations
Jan 2012	Oct 2013	AITAM, Tekkali	Professor
Jul 2009	Dec 2011	AITAM, Tekkali	Professor & Head
Sep 2006	Jun 2009	AITAM, Tekkali	Assoc. Prof. & Head
Mar 2006	Oct 2006	AITAM, Tekkali	Sr. Asst.Prof. & Head
Nov 2005	Feb 2006	AITAM, Tekkali	Sr. Asst. Prof.
Sep 2004	Oct 2005	AITAM, Tekkali	Asst. Prof.
Sep 2001	Aug 2004	JITM, Parlakhemundi, Odisha	Lecturer
May 2000	Sep 2001	Edla Infotech Ltd., Hyderabad	Software Engineer
Jan 1997	Apr 2000	Engineers India Ltd., New Delhi	Sr. Mech. Engineer
Mar 1994	Nov 1996	ESSAR Projects Ltd., Visakhapatnam	Jr. Engineer

May 1992	Feb 1994	The Calcutta Shipping & Marine Engg. Co. (P) Ltd., Visakhapatnam	Engineer
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Areas of Interest:

1. Production Technology
2. Machine Tools
3. Unconventional Machining Processes
4. Metrology
5. Modern Manufacturing Methods

Guidance of Academic Projects:

- i) Doctoral Projects : -
- ii) Masters Projects : 6
- iii) Bachelor Projects : 17

Sponsored Research Projects:

S. No.	Sponsoring Agency	Title of the Project	Grant
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Funding from external agencies:

S. No.	Sponsoring Agency	Title of the Program	Grant
1	AICTE	Modernization of CAD/CAM Lab (MODEROBS)	12,00,000.00
2	DST (SERB)	A Two days National Conference on Nano Manufacturing	1,00,000.00

Honors and awards received: -

Memberships of Professional Societies and Other Organizations: ISTE, IE (I)

Other Responsibilities:

Details of Book Publications: -

Details of Publications:

1. C. J. Rao, D. Nageswara Rao and D. S. Sudheer “**Modular Manufacturing**” in **International Journal of Mechanical Engineering of Serials Publications, July-December 2009, Vol.2, , 2009.**
2. C. J. Rao, D. Nageswara Rao and V. Sai Srikanth “**Performance of single modular manufacturing unit with queuing model based material handling system using AGVS**” in **International Journal of Engineering Science and Technology Vol. 2(5), 2010, 929-941.**
3. P. Srihari, D. Azad and Dr. C. J. Rao “**Stress analysis of Embedded Rail Insert in Prestressed Concrete Sleeper**” in **International Journal of Engineering Research & Technology, Volume 2, Issue 10 (October – 2013).**

4. Dr. C. J. Rao, Dr. D. Nageswara Rao and P. Srihari **“Influence of cutting parameters on cutting force and surface finish in turning operation”** Procedia Engineering, published by Elsevier, September 2013.
5. G.V.Srinivasa Rao, Dr. C. J. Rao and Dr. N. Haribabu **“Heat Transfer Analysis on Shell and Tube Heat Exchanger”** International Journal of Research in Aeronautical and Mechanical Engineering IJRAME Vol 2, issue 1; pp 11-26 Jan 2014.
6. J. Vijaya Kumar and Dr. C. J. Rao **“Experimental investigation of Performance and Emission of Diesel Engine working on Diesel and Neem oil blend with Diethyle Ether as additive”** International Journal of Technological Exploration and Learning (IJTEL) Vol 3, issue 5; 2014
7. C. J. Rao, D. Sriramulu and Arun Tom Mathew **“Analysis of Tool Life during Turning Operation by Determining Optimal Process Parameters”** Procedia Engineering/Science Direct. Vol 97; pp 241-250; 2014.
8. P. Padmavathi, and C. J. Rao **“Exploration of Effect of Copper Filler Material on Thermal Properties of Palmyra Fiber Reinforced Composite”** International Journal of Research in Aeronautical and Mechanical Engineering Vol 2, issue 12; pp 24-31 December 2014.
9. G. Srikanth and Dr. C. Janardhana Rao **“A study of Thermo – Mechanical Interactions of Journal – Bearing Systems”** International Journal of Research in Mechanical Engineering & Technology Vol 5, issue 1; Nov 2014 - April 2015
10. K. Rama Rao, C. J. Rao and D. Sriramulu **“The Experimental Investigation on Performance and Emission Characteristic of a Single Cylinder Diesel Engine Using Nano Additives in Diesel and Biodiesel”** International Journal of Science & Technology Vol 8, issue 29; pp 1-9 2015.
11. S. Sowjanya, Dr. D. Sreeramulu and Dr. C. J. Rao **“Experimental Analysis of Cutting Forces, Tool Life and Surface Roughness of Single Point Cutting Tool During Turning Process”** International Journal of Engineering Sciences & Research Technology Vol 4, issue 12; pp 373-376 2015
12. P. Kalyani and Dr. C. J. Rao **“Comparative Study of Water Vapour Condensation from Humid Air Flowing on a Vertical Plate and a Pipe in a Lamina Along with CFD Simulation”** International Journal of Engineering Sciences & Research Technology Vol 4, issue 11; pp 300-308 2015.
13. S. Sowjanya, Dr. D. Sreeramulu and Dr. C. J. Rao **“Experimental and Numerical Investigation of Tool Life of Single Point Cutting Tool During Turning Process”** International Journal of Science & Technology Vol 8, issue 28; pp 1-8 2015.
14. M. Prem Kumar and Dr. C. J. Rao **“Structural and Thermal Analyses on a Tapered Roller Bearing”** International Journal of Innovative Science Engineering & Technology (IJSET) Vol 2 issue 1; pp 502-511 2015.
15. Yogitha Seerapu, M. V. Ramana, D. Sreeramulu, C.J.Rao and K. Mohan Lakshmi **“Performance and Thermal Analysis of One Shell Two Tube Pass Heat Exchanger with Ethylene Glycol and SiC Nano fluid”** International Journal of Applied Engineering Research Vol 11 issue 4; pp 2587-2594 2016.

16. G. Sireesh Kumar, C.J.Rao and S. K. Madhavi **“EVALUATION OF CALORIFIC VALUE OF BIO-BRIQUETTE” International Journal of Research in Engineering and Technology. Vol 5 issue 9; pp 124-128 Sep-2016.**
17. Dowluru Sreeramulu, N. Ramesh, C. J. Rao **“Integration of computer aided design and computer aided manufacturing using STEP data exchange standard” Published in: [2016 10th International Conference on Intelligent Systems and Control \(ISCO\)](#). Date Added to *IEEE Xplore*: 03 November 2016. DOI: [10.1109/ISCO.2016.7727032](#) Date of Conference: 7-8 Jan. 2016**
18. G. Sireesh Kumar, C.J.Rao and S. K. Madhavi **“Thermal and Mechanical Analysis on Palm Briquettes” International Journal of Research in Applied Science & Engineering Technology (IJRASET). Vol 4 Issue XI; pp 328-337 November 2016.**
19. G. Sireesh Kumar, Dr. C.J.Rao, Dr. D. Sreeramulu and S. K. Madhavi **“EVALUATION OF BOILER EFFICIENCY OF BIO BRIQUETTES BY INDIRECT METHOD” International Journal of Mechanical Engineering and Technology (IJMET). Vol 7 Issue 6; pp 624-633 November-December 2016.**
20. Rao, M. Siva Eswara; Sreeramulu, Dowluru; Rao, CJ; Ramana, MV; **“Experimental investigation on forced convective heat transfer coefficient of a nano fluid” Materials Today: Proceedings, Jul 2017 PP 8717-8723, Scopus(Elsevier)**
21. K.Mallikarjunareddy, Dr.C.J.Rao and M.Venkatesh **“Performance Analysis of Single Cylinder Four Stroke Homogeneous Charge compression Ignition (HCCI) Engine Using Ethanol with EGR” International Journal for Research & Development in Technology. Vol 8, Issue 5, Nov-17 ISSN(O) 2349-3585**
22. D. Sreeramulu, C. J. Rao, Y. Sagar, M. Venkatesh **“Finite Element Modeling and Machining of Al 7075 Using Coated Cutting Tools” Science Direct Materials Today: Proceedings 5 (2018) 8364-8373**
23. Shyam Kumar Y, Dr. C. J. Rao, Laxmana Rao K **“Effect of Ignition Timing on Performance and Exhaust Emissions while using Lemon Peel Oil and Gasoline Blends” International Journal for Technological Research in Engineering. Vol 5, Issue 11, July-2018 ISSN(O) 2347-4718**
24. Sreeramulu, D; Rao, CJ; Sagar, Y; Venkatesh, M; **“Finite Element Modeling and Machining of Al 7075 Using Coated Cutting Tools” Materials Today: Proceedings, Vol 5, Issue 2, Aug 2018, 8364-8373, Scopus (Elsevier)**
25. Raju, R Sivasankara; Rao, CJ; Sreeramulu, D; Prasad, K; **“Evaluation of Optimization Parametric Condition During Machining for Al-CSA Composite Using Response Surface” Innovative Product Design and Intelligent Manufacturing Systems, Apr 2020 Springer, Singapore, 469-476, Scopus**
26. CH. JANARDHANA RAO, AGATAMUDI LAKSHMANA RAO, K. ARUNAKUMARI; **“Economic Lot Size Model With Weibull Deterioration And On-Hand Inventory Demand Under Allowable Delay In Payments” Vol 63, Issue 6, Dec 2020, 10457-10471, Solid State Technology, Scopus**
27. C J Rao,Sivasankara Raju R,Sreeramulu D,Sagar Yanda; **“Fabrication and Evaluation of Optimized Parametric Condition during EDM Machining of Al-CSA Composite Using Taguchi Orthogonal Array; Advances in Design and Thermal Systems:**

Details of Conferences / Workshops / Refresher Courses Organized:

1. A two day AICTE sponsored workshop on Nanotechnology and its Applications at AITAM, Tekkali, during February' 2010.
2. A two day workshop on Computational Fluid Dynamics and its Applications, at AITAM, Tekkali during March'2012.
3. Convened National Conference on Nano Manufacturing 5th and 6th March 2016 sponsored by SERB, DST

Details of Conferences / Workshops / Refresher Courses Attended:

1. 23rd National Convention on Mechanical Engineers 10-12, September 2007. Engineers India Bhavan, Hyderabad
2. 3 day workshop on "Finite Element Analysis" 15 Nov 2007 to 17 Nov 2007 A. U. College of Engg., Visakhapatnam,
3. Faculty Development Programme, a 3 day work shop AITAM, Tekkali, 20 to 22 Feb 2008
4. Workshop on Intelligent Manufacturing Visakhapatnam. 16 & 17 Mar 2009 A. U. College of Engg.
5. FDP on Research Methodology, Teachers and Ethics AITAM, Tekkali, 5th & 6th Jun 2010
6. AICTE sponsored 2 day workshop "Nano technology and applications" AITAM, Tekkali, 12th & 13th Mar 2010
7. UGC sponsored workshop on Insight to Nano Tehnology A. U. College of Engg. Visakhapatnam. 8th & 9th Jul 2010
8. Workshop on Outcome Based Education AITAM, Tekkali, 19th Jan 2013
9. "Influence of cutting parameters on cutting force and surface finish in turning operation" was presented at International Conference on DESIGN and MANUFACTURING (IConDM 2013) held at IIITD&M, Kancheepuram, Chennai during 18-20 July 2013.
10. Management Capacity Enhancement Program At IIM, Indore From 20th March to 26th March 2014
11. 12th Global Congress on Manufacturing and Management (GCMM 2014) VIT University, Vellore 8 – 10 December 2014
12. One week workshop on Manufacture of Advanced Materials (MAM-2017) VNIT, Nagpur, 26th May to 31st May 2017

13. One week Faculty Development program On Advances in Manufacturing of Composites (AMC-2017) Sasi Institute of Technology and Engg., Tedepalligudem, W.G.Dist., Andhra Pradesh. 27th Nov – 2nd Dec 2017
14. AICTE QIP Short term course on “Recent Advances in Machining (RAMP) Processes” Veer Surendra Sai University of Technolog Burla, Odisha. 7th – 12th May, 2018.
15. Meity, Govt. of India sponsored One Week FDP on “ICT in advanced Manufacturing Engineering” Dept. of ME, NIT, Warangal, T.S., India 27th May – 1st June 2019

Details of online FDPs and Webinars Attended:

S. No.	FDP/ Webinar	Title of the program	Name of the organization	Duration
1	FDP	One week STTP on Advanced Research Methodology	REST Society for Research International, Krishnagiri, Tamil Nadu	11 – 15 May 2020
2	FDP	One week STTP on Teaching and Learning Pedagogy	REST Society for Research International, Krishnagiri, Tamil Nadu	18 – 22 May 2020
3	Webinar	Research Thrust Area in Composites	Arasu Engineering College	20 May 2020
4	Webinar	Evolution of connected industries	Narasaraopeta Engg. College, Andhra Pradesh	23 May 2020
5	FDP	Manufacturing and analysis of Advanced Materials and Engineering solutions	Dept. of Aeronautical Engineering, MLR Institute of Technology	26 – 30 May 2020
6	Webinar	Introduction to Design of Experiments	Arasu Engg. College, Kumbakonam, Tamilnadu	27May 2020
7	Webinar	Post COVID-19: Science and Technology	SRM University-AP, in association with India’s National News Paper THE HINDU	29May 2020
8	FDP	AMEDE	AITAM	1 – 5 June 2020
9	Webinar	Additive Manufacturing for Bioimplant Manufacturing and it’s Challenges	Arasu Engg. College, Kumbakonam, Tamilnadu	13June 2020
10	FDP	Research Trends in Mechanical Engineering	GEC	15 – 20 June 2020
11	Webinar	The role of Management in Manufacturing post COVID	MLR Institute of Technology	16 June 2020
12	FDP	Materials Science Engineering	REST Society for Research International, Krishnagiri, Tamil Nadu	22 – 27 June 2020
13	Webinar	Recent Research and Development in Additive Manufacturing	Dept. of Mechanical Engg., Amaljyothi College of Engg., Kottayam.	25 June 2020
14	Webinar	ICT enabled Science Education in India	Jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, Univ. of	28 June 2020

			Delhi under PMMMNMTT of MHRD and Telangana Academy of Sciences, Hyderabad	
15	FDP	Fluid Mechanics and Machines	Dept. of Mechanical Engg. and Dept. of Aeronautical Engg., Arasu Engg. College.	29June – 3July June 2020
16	Webinar	Processing of light metal alloys and characterization	Mechanical Engg. Dept., Raghu Institute of Technology, Visakhapatnam	3July 2020
17	FDP	Recent Trends in Hybrid and Electric Vehicle Technology	MVGR, Vizianagaram	6-11July 2020
18	FDP	Engineering Optimization	NITTTR, Chandigarh	13– 17July 2020
19	FDP	Frontiers of Research in Mechanical Engg.	Dept. of Mechanical Engg., SITAM, Vizianagaram	22-26July 2020
20	Webinar	Impact of COVID-19 on the development of Rural Economy-Challenges and opportunities	JNTUA and Lead India Foundation	27July 2020
21	FDP	Mechatronics, Automation and Rbotics	Dept. of Mechanical Engg., School of Engg., OPJU	3– 7Aug 2020
22	Webinar	Preparation of quality journal papers and Book Chapters	AITAM, Tekkali	9Aug 2020
23	Webinar	Challenges in Good Learning and Assessment-Post COVID-19	AITAM, Tekkali	5Sep 2020
24	FDP	Recent Advances in Materials and Manufacturing – Part II	GVPCE, Visakhapatnam	7-12Sep 2020
25	Webinar	NEO2020-What is it that we can do	AITAM, Tekkali	15Sep 2020
26	FDP	Recent Advances in Materials and Manufacturing – Part III	GVPCE, Visakhapatnam	5-10Oct 2020
27	FDP	Engineering Law	MLR Institute of Technology and ATAL Academy	12-16Oct 2020

Details of virtual conferences Attended:


S. No.	Title of the paper	Conference	Name of the organization	Duration
1	Design of Automated Braking System based on vehicle over speed using PLC ladder method and WPL Software	International Virtual conference on Mechatronics, Automation and Cyber Physical Systems	School of Mechanical Engg., Vellore Institute of Technology, Vellore, Tamilnadu	26 and 27 June 2020
2	Design of Automated Braking System based on Vehicle Over speed using PLC Ladder Method	Virtual International Conference on Emerging Trends in Mechanical Engineering & Industrial Automation(ICETMEIA-2K21)	Narasaraopeta Engineering College, Guntur Dist., Andhra Pradesh, India.	30 and 31 July 2021

Certificate Courses obtained:

1. NPTEL Online Certification of 12 week course in Manufacturing Process Technology I & II, Jan-Apr 2018
2. NPTEL Online Certification of 4 week course in Outcome Based Pedagogic Principles for effective Teaching Jul-Oct 2018
3. NPTEL Online Certification of 12 week course in Engineering Metrology Jul-Oct 2019
4. Coursera Online 2 week Certificate course on 3D Printing Revolution by University of Illinois at Urbana-Champaign, 20th April 2020.
5. Coursera Online 2 week Certificate course on Digital Manufacturing & Design by University at Buffalo & The State University of New York, 15th May 2020.
6. Coursera Online 6 week Certificate course on 3D Printing Hardware by University of Illinois at Urbana-Champaign, 16th May 2020.
7. Coursera Online 3 week Certificate course on Digital Thread: Components by University at Buffalo & The State University of New York, 26th May 2020.
8. Coursera Online 5 week Certificate course on Digital Thread: Implementation by University at Buffalo & The State University of New York, 3rd June 2020.
9. Coursera Online 3 week Certificate course on Advanced Manufacturing Process Analysis by University at Buffalo & The State University of New York, 11th June 2020.
10. Coursera Online 4 week Certificate course on Intelligent Machining by University at Buffalo & The State University of New York, 20th June 2020.
11. Coursera Online 6 week Certificate course on 3D Printing Software by University of Illinois at Urbana-Champaign, 22nd June 2020.
12. Coursera Online 4 week Certificate course on Intro to Digital Manufacturing with Autodesk Fusion 360 by Autodesk, 3rd July 2020.
13. Coursera Online 4 week Certificate course on Advanced Manufacturing Enterprise by University at Buffalo & The State University of New York, 11th July 2020.
14. Coursera Online 4 week Certificate course on Cyber Security in Manufacturing by University at Buffalo & The State University of New York, 7th August 2020.
15. Coursera Online 4 week Certificate course on Model-Based Systems Engineering by University at Buffalo & The State University of New York, 18th August 2020.
16. Coursera Online 5 week Certificate course on Roadmap to Success in Digital Manufacturing & Design by University at Buffalo & The State University of New York, 1st September 2020.

Other Achievements:

1. Organized Student paper presentation INERTIA 09
2. Organized Student paper presentation INERTIA 10
3. Organized Student paper presentation INERTIA 11
4. Convened ASPIRE2K16, Annual College Student paper presentation, 26th and 27th February 2016

**Signature**