

Profile

Prof. **K.Prahlada Rao**, ,M.Tech;Ph.D

Rector ,

Member, Executive Council of the University

Professor of Mechanical Engineering,

Jawaharlal Nehru Technological University Anantapur

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Name: Prof. Karanam Prahlada Rao

Parents: K.Nagesa Rao

Smt. K.Indira

Official Address:Rector [Pro Vice Chancellor] &

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1.PERSONAL DETAILS

Name: Prof. Karanam Prahlada Rao
Parents: K.Nagesa Rao
Smt. K.Indira

Official Address: Rector &
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Ph: Mob: 9949 224505
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Email Id:

drkprao1@gmail.com
rector@jntua.ac.in

Nationality / Religion: Indian- Hindu

Date & Place of Birth: 15-11-1959,

Ananthapuramu (A.P)

2.Educational Qualifications:

*Ph.D : JNTU Hyderabad Area: Manufacture/ Artificial Intelligence
Year: 2002*

*M.Tech: Heat- Power, Refrigeration & Air Conditioning, Score: 72%
First class with distinction
JNTU CEA, August-1985, JNTU H*

*B.Tech: Mechanical Engineering, Score: 72%, First class with
Distinction, JNTU CEA. JNTU-H
1982*

3.Details of Ph.D. Thesis

Domain: Manufacture/ Artificial Intelligence/ Expert system

*Title: Knowledge based System Approach for Integrating Design and
Manufacture of Metal Castings*

Year of Award: 2003

Supervisors: Prof.P.Dhanajaya Rao

*Retd. Prof of Mechanical Engineering
And Former Principal, JNTUA-CEA*

Prof. R.Kotaiah

*Retd Prof of Metallurgical Engg.,
JNTU CEH, Hyderabad*

4.Professional and Administrative Experience

- *Currently, Rector, Jawaharlal Nehru Technological
University Anantapur, Ananthapuramu, May-2018- Till date*
- *Principal, JNTUA College of Engineering, Ananthapuramu, January-
2015 to April-2018*

- *Vice Principal, JNTUA College of Engineering, Ananthapuramu, Sept-2010 to Sept-2012*
- *Head of Mechanical Engineering, JNTUA College of Engineering, Ananthapuramu , Sept-2008 to Sept-2010*
- *Officer in charge of Transport and workshop, Mechanical Engg.Dept.*
- *Co ordinator, Entrepreneurship Development Program Cell, 2004-06*
- *Secretary, JNTUA CEA Student Co operative Store, 2004- till date.*
- *Professor of Mechanical Engineering, JNTUA College of Engineering, Ananthapuramu , February-2006 till date*
- *Associate Professor of Mechanical Engineering, JNTU College of Engineering, Ananthapuramu , May-2004 to February-2006*
- *Assistant Professor (Lecturer) in Mechanical Engineering, JNTU College of Engineering, Ananthapuramu , October-1985 to May-2004*

5.Important positions held:

- Member Executive council, JNTUA 2016
- Chairman, Research Advisory committee (Mech.Engg) JNTUA
- Member, Governing council of Various affiliated autonomous institutions,
- Member, BOS of Mech Engg at JNTUH, SVU and various autonomous engg. colleges.,
- Member, AFRC Karimnagar Dist, 2013.

6.Achievements as Head of Mechanical Engineering, JNTUA College of Engineering, Ananthapuramu , Sept-2008 to Sept-2010

- *Took active role and Conducted several programs such as research conferences, seminars, student symposiums, training programs under TEQIP-I project*
- *Developed various laboratories under TEQIP-I and MODROBS*
- *Introduced two new PG Programs M.Tech (Advanced IC Engines), and M.Tech. (Product Design)*
- *Board of Studies Chairman for Syllabus revision for R-09 regulations in 2009*
- *Conducted Skill development programs for rural poor youth*

7.Achievements as Vice Principal, JNTUA College of Engineering, Ananthapuramu , Sept-2010 to Sept-2012

- *Introduced CC cameras for semester examination halls*
- *Active participation in conducting all competitive exams like APEAMCET/APCET/APPGECET as successfully as Asst.regional coordinator.*

8.Achievements as Principal, JNTUA CEA

- *Successfully accredited the institution to statutory NBA status for 2017-20 period.*
- *Successfully acquired TEQIP-III world bank project for three years April-2017 to April 2020for the institution as mentor institute for Govt.Inst, of Engg. and Tech., Bikaner, Rajasthan.*
- *Established Seimens Centre of Excellence, in association with APSSDC, A.P, with 14 state of the art laboratories.*
- *Introduced CBCZ system as per UGC autonomous guidelines.*
- *Introduced more skill based laboratories in B.Tech/M.Tech courses as Chairman, common BOS in R-17(2017) and R-2015 regulations.*
- *Introduced many new M.Tech courses in Chemical, Mechanical, E&C streams Successfully Conducted all competitive entrance exams like APEAMCET/APCET/APPGECET as successfully as regional coordinator.*
- *Successfully conducted many prestigious competitive exams like Civil Services UPSC, APPSc etc.*
- *Successfully Worked for the general ambience of College, hostels and departments*

- Successfully increased the placements of UG & PG students by inviting various companies core and software sectors.
- Participated in many ranking surveys as NIRF, TIMES etc
- organized NTR VSET exam as Regional Coordinator

9. Teaching Experience: 33 years of teaching UG & PG courses

various subjects taught: (Under Graduate level) Machine design, Machine drawing, Engg. Graphics, Production/Operations Management, Material science, metallurgy, Modern machining methods, Manufacture,

(Post Graduate level) Refrigeration, Cryogenics, Air conditioning, Creative Engineering Design, Statistical quality control, total quality management

- in charge of Laboratories of various UG & PG courses

10. Invited lectures: more than 25 lectures at various institutions

11. Research Achievements:

- More than 27 years of research experience
- Successfully guided 17 research scholars for award of Ph.D in Manufacture, material science and design domains.
- Six(6) scholars are still pursuing their research for their Ph.Ds
- Supervised more than 30+ UG projects and 50+ PG dissertations.
- More than 120 publications in NC/NJ/IJ/IC
- Accredited supervisor at JNTU-H,
- Evaluated thesis from JNTU-H, GITAM Univ, SVUniv, Rayalaseema Univ, Bangalore Univ, VTU

12. Details of programs organized:

- *Conducted several programs, seminars, conferences, workshops, symposiums,*
- *invited lectures, guest lectures,*
- *short term training programs, awareness programs ,NSS camps, induction programs*
- *co ordinated and conducted college day, cultural day farewell day, freeshers day, sports day, athletics meets, commemorative days. In various capacities as HoD, Vice Principal, Principal, etc.*

Social Programs:

- Conducted and PATRONIZED several janmabhoomi, cashless transactions rural development, medical camps for the welfare of students, staff and nonteaching and technical staff.

Journal Publications: International

- N.Muthukrishnan, M.Murugan, K.Prahlada Rao, 'An Investigation on machinability of Al/SiC Metal Matrix Composites using PCD inserts,'International Journal of Advanced Manufacturing Technology'.Vol.38:Pp 447-454 (2008)
- N.Muthukrishnan, M.Murugan, K.Prahlada Rao, ' Machinability Issues in turning of Al/SiC (10p) Metal Matrix Composites,' International Journal of Advanced Manufacturing Technology'.Vol.39:Pp 211-218 (2008)
- Sanjeev Reddy .K.H and Prahlad Rao K. 2007. **Just in time manufacturing system with lot size and set up time optimization.** SCOUR Journal of Institute of Productivity and Management. Vol 2(1), Jan 2008, pp 7-12, Ghaziabad,India.

- Sanjeev Reddy .K.H and Prahlad Rao K. 2007. **Just in time manufacturing system with lot size and set up time optimization.** International Journal of Computer Mathematical Sciences and Application. Vol 2(2), April-June 2008, pp89-96,.,New Delhi,India.
- Sanjeev Reddy .K.H and Prahlad Rao K. 2008.**The Production Performance Benefits from JIT Implementation.** Proceedings of International Conference & Exhibition on Total Engineering Analysis & Manufacturing Technologies (TEAM TECH 2008).September 2008,pp 83-84,., Indian institute of science, Bangalore, India.
- Sanjeev Reddy .K.H and Prahlad Rao K. 2007. **The Production Performance Benefits from JIT Implementation.** Accepted in 6 April 2009,., SCOUR Journal of Institute of Productivity and Management, Ghaziabad, India.
- **A.Mahamani,** K.Prahlada Rao and Dr. V. Pandurangadu, Development of evaluation map to asses the supply chain management software solution in volume driven manufacturing network, Serbian Journal of Management – An International Journal of Management Theory and Practice, 1(2), 2006, pp 95-104
- **A.Mahamani,** K.Prahlada Rao and Dr. V. Pandurangadu, Development of a (R, Q, k, t) single item inventory replenishment policy for warehouse management in supply chain – A case study in mineral water company. Serbian Journal of Management –An International Journal of Management Theory and Practice, 2 (2) , 2007, pp 227-235
- **A.Mahamani,** K.Prahlada Rao and Dr. V. Pandurangadu, Analyzing the Market Drivers of Supply Chain Management Software Vendors-An Empirical Investigation, Accepted in International Journal of Information Systems and Supply Chain Management
- **A.Mahamani,** K.Prahlada Rao and Dr. V. Pandurangadu, Development of a Simulation Based Approach to Optimize the Inventory Policy in a Single Echelon Supply Chain,

International Journal of Data Analysis Techniques and Strategies, Vol. 1, No. 2, 2008., pp 173-192

- **A.Mahamani**, K.Prahlada Rao, Development of spread sheet based vendor managed inventory model for a single echelon supply chain- a case study, *to be published in SJM, 4(2)2009*
Serbian Journal of Management –An International Journal of Management ,Theory and Practice,
- **A.Mahamani**, K.Prahlada Rao, Development of a multi-criteria decision making model for supplier selection – a case study, Industrial Engineering Journal International

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Journal Publications: National

- N.Muthukrishnan, VarunKrishnakumar,Kailash, K.Prahlada Rao, M.Murugan, ' High speed machining of Al/SiC (20p) MMC using PCD inserts,'Journal of Manufacturing Technology Today,Vol 6.Issue 10.Pp 10-15(2007)
- Ramesh. J.V.R, Dr. K.Prahlada Rao and Dr. K.Rajagopal, "Process Planning with Alternate Process Plans", Engineering Today, Vol.VII, Issue 10, pp. 3-5, October 2005.
- Ramesh. J.V.R, Dr. K.Prahlada Rao and Dr. K.Rajagopal, "A Model for an Instantaneous Production Control in an Assembly Facility-A Case Study", Engineering Today, Vol.IX, Issue 12, pp. 24-28, December 2007.
- Ramesh. J.V.R, Dr. K.Prahlada Rao and Dr.K.Rajagopal, "Precision Forecasting by Exponential Smoothing In a Steel Industry- A Case study", Indian Institution of Industrial Engineering(IE Journal),Vol.I Issue 12,pp12-16, 2009
- Sanjeev Reddy .K.H and Prahlad Rao K. 2006. **Using simulation to schedule manufacturing resources.** Proceedings of National Conference on the Impact of Information Technology on

Manufacturing (NCIITM-2006) on 24th & 25th March 2006, pp 48,.
Kumara Guru College of Technology Coimbatore - 641 006 India.

- Sanjeev Reddy .K.H and Prahlada Rao K. 2006. **BPR implementation methodologies a comparative study**. Proceedings of National Conference on the Impact of Information Technology on Manufacturing (NCIITM-2006) on 24th & 25th March 2006, pp 55,.
Kumara Guru College of Technology Coimbatore - 641 006 India.
- Raju, K.B., Raju, G.V., and Prahlada Rao, K., "Stress Intensification of Fillet welded T-joints with Under Cuts", Manufacturing Technology & Management (MT&M) Journal, Vol. 2, pp. 5-11, (2006).
- Raju, K.B., Raju, G.V., and Prahlada Rao, K., "Photoelastic Stress Intensification of Fillet Welded T-Joint", Journal of MTT, Vol 8, pp 31-41, (2009)
- Raju, K.B., Raju, G.V., and Prahlada Rao, K., "Determination of SIF Values in a Simulated Fillet Welded T-joint with Overlaps", Journal of Manufacturing Technology & Management (MT&M), Vol 3, pp 68-74, (2009)
- Raju, K.B., Raju, G.V., and Prahlada Rao, K., "Photoelastic Determination of Stress Intensity Factors in a Simulated Fillet Welded T-joint under influence of Flange Flexibility and Flange Plate Thickness", Communicated to MT&M Journal.
- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, An Approach to Measure the Effectiveness of the Supply Chain with Different Strategic Goals, Engineering Today Journal (August 2006), pp 2-5
- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, Evaluation of a (R, Q, k, t) single item inventory replenishment policy through excel spread sheet simulation in supply chain., Accepted in Industrial Engineering Journal (India)
Ref: AR/NO/1478/07
- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, Development of Spread Sheet Simulation Model for (r, Q) Inventory Replenishment Policy in Supply Chain, Industrial Engineering Journal (India) Ref: AR/NO/1532/08 (under review)

- **Mahamani** and D. Sai Chaitanya Kishore, Optimization of the process parameters for surface roughness of magnetic abrasive finishing process using Taguchi method, Spectrum Technology Journal, Jawaharlal Nehru Technological University, (Under review)
- **Mahamani**, Down Time Analysis of a Process Industry, Engineering Today Journal, March 2009, pp 15-19
- **Mahamani**, Advanced supplier selection methods in the context of supply chain, Business Vision Journal (Under Review)
- **Mahamani**, Design and fabrication of fixture for fork, Industrial Engineering Journal (under review)
- **A.Mahamani**, Development of AHP model for selecting higher education in abroad, journal of management observer ,April 2009, pp89-92
- **Mahamani**, Systematic procedure for designing a fixture in the context of multiple machining operations, Engineering Today Journal, Vol XI, issue 07, July 2009, 10-13
- **Mahamani**, Spare parts inventory management in process industries – a case study, Engineering Today Journal, Vol XI, issue 07, July 2009 14-17

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Publications in the: International Conference

- Muthukrishnan.N, Vikram.D, Kaushik.G, Prahlada Rao.K, (2004) "An investigation on machining behavior of Metal Matrix Composites by using PCD inserts", 'ASME World Tribology

congress held at Washington', USA during September 12-15. pp 1-2 (WTC 2005- 63152).

- Muthukrishnan.N, Shri Raghav, Siddharth gothi, Prahlada Rao.K, Murugan.M.(2005) "Machinability analysis on MMC (Al-SiC (10p)) by using Artificial Neural Network", 'Third International Conference on Leading Edge Manufacturing in 21century held at Nagoya', Japan. During October 19-22, pp 517-521, organized by JSME.
- Muthukrishnan.N, Srinaman, Dheeptha, Prahlada Rao.K, Murugan.M (2005), "Machinability of MMC composites- Artificial Neural Network and ANOVA Analysis", 'Tehran International Congress on Manufacturing Engineering (TICME 2005) held at Tehran', Iran. during December 12-15. pp 1-8 (Article 2198).
- Muthukrishnan.N, Prahlada Rao.K, Ilaiyavel.S, Vijayakumar.A, Venkatesh.P.R (2005), "Correlating the machinability analysis of Metal Matrix Composites by using Neural networks", International Conference on Recent advances in manufacturing process (RAMPT 2005) held at National Engineering College', Kovilpatti, Tamilnadu. during February 23-25. pp 379-384.
- Muthukrishnan.N, Pranav arun, Eshwran.V, Prahlada Rao.K, Murugan.M (2006), "Study of tool wear by machining fabricated Al-Sic (10p) by using CNMA 120408 (PCD insert 1600 grade) under different machining conditions", 'International conference (AMPC -2006) held at college of engineering, Anna University, Chennai.
- Sanjeev Reddy .K.H and Prahlad Rao K. 2006. Systematic design & analysis of manufacturing system Proceedings of International Conference on Global Manufacturing & Innovation (GMI-2006) on 27th -29th July 2006,pp 93,. Coimbatore Institute of Technology Coimbatore- 641014 India.
- Sanjeev Reddy .K.H and Prahlad Rao K. 2007. Just in time manufacturing system with lot size and set up time optimization.

Proceedings of International Conference on Advances in Machine Design Industry Automation (ICAMDIA-2007) on 10th -12th Jan 2007, pp 287-290,. College of Engineering Pune- 411005, India.

- Sanjeev Reddy .K.H and Prahlada Rao K. 2007 An Internet-based product customization system for CIM. Proceedings of International Conference on Advances in Machine Design Industry Automation (ICAMDIA-2007) on 10th -12th Jan 2007,pp 331-338,. College of Engineering Pune- 411005, India.
- Sanjeev Reddy .K.H and Prahlada Rao K. 2007.Group Technology in Fms-An Extended Cluster Identification Approach. Proceedings of International Conference on Advances in Manufacturing & Technology Management (ICAMTM-2007) on 18th -20th Jan 2007, pp 255-259,. Parshvanath College of Engineering, Thane (w), Mumbai 400601, India.
- Sanjeev Reddy .K.H and Prahlada Rao K. 2007. A Method to Enhance Volume Flexibility in JIT Production Control. Proceedings of International Conference & Exhibition on Total Engineering Analysis & Manufacturing Technologies (TEAM TECH 2007).On 4th -6th October 2007, pp 08,.Indian institute of science, Bangalore, India.
- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, Reviewing

the issues and challenges to implement the supply chain management software, Accepted in ICAMDIA 2007, 18-20 Jan-2007, Mumbai.

- D. Sai Chaitanya Kishore , **A. Mahamani** and V.Kuppan, Optimization of the process parameters for surface roughness of Magnetic abrasive finishing, International Conference, organized by ORSI Tirupati, 15-17 December 2008,pp 43-43

- K.Ramesh Reddy and **A.Mahamani**, Spare-Parts Inventory Management Using Static Inventory Replenishment Policies- A Case Study , International Conference, organized by ORSI Tirupati, 15-17 December 2008,pp 54-54

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Publications in the: National Conference

- Muthukrishnan.N AshwinFranklin.J,Karthik.J, Vikram.D, Pahlada Rao.K, Murugan.M (2005), "Influence of PCD insert 1600 grade on machining metal matrix composites Al-SiC under different cutting parameters", 'National conference on Contemporary Approaches in Design and Manufacturing (CADAM '05) held at Alagappa Chettiar college of Engineering and Technology, karaikudi, Tamil nadu . during March 23-24. pp 6.48-6.52.
- Muthukrishnan.N, Vikram.D, Kaushik.G, Pahlada Rao.K, Murugan.M (2005), "Performance Evaluation of K 20 Carbide tools on Machining Silicon carbide reinforced Aluminum Metal Matrix Composites", National conference on Contemporary Approaches in Design and Manufacturing (CADAM '05) held at Alagappa Chettiar college of Engineering and Technology, karaikudi, Tamil nadu. during March 23-24. pp 6.44-6.47.
- Muthukrishnan.N, Vijaykumar.A, Pahlada Rao.K, Murugan.M (2005), "Machinability analysis of Al-SiC (20p) Metal matrix composite by using PCD insert 1600 grade", 'National Conference in Advances in Manufacturing (AIM '05) held at Vasavi College of Engineering, Hyderabad. during May 12-13. pp 60-62.
- Raju, K.B., Rajeswari, P., Raju, G.V., Bhaskara Raju .P, and Pahlada Rao, K., "Determining of Stress Intensity Factors of Fillet Welded T-joint with Weld Discontinuities", Proceedings of TIME-2004, D56-D59, KITS, Warangal, (2004).
- Raju, K.B., Raju, G.V., and Pahlada Rao, K., "The effects of Flange Plate Thickness and Flange Flexibility on a Fillet Welded T-joint", International Symposium on Engineering Analysis and Simulation, MS Ramaiah Memorial Auditorium, New BEL Road, Bangalore., Jan 11-12, 2007.
- Raju, K.B., Raju, G.V., and Pahlada Rao, K., "Stress Intensification of Fillet welded T-joint", Proceedings of Team

Tech 2008, International Conference, J.N. Tata Auditorium, IISc, Bangalore (2008).

- PROCESS PLANNING OF ALTERNATE PROCESS PLANS" presented in NATCON.ME-2004 on 14-15 March 2004, organized by M.S.RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE.

- "A MODEL FOR INTEGRATED PROCESS PLANNING, PRODUCTION PLANNING, SCHEDULING & CONTROLLING IN AN ASSEMBLY FACILITY- ACASE STUDY" presented in CAME-2005 , JNTUCE, Anantapur.

- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, Review of

Emerging trends in Supply chain management- in Service sectors, Proceedings, RACE-2006, Mar 3-4,2006,Osmaniya University, Hyderabad, pp 44-44

- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, Application

of Information technologies in supply chain management, Proceedings, OPTEST-2006, Apr 11-12, 2006, BIT, Sathyamangalam, pp 72-72

- **A.Mahamani**, K.Prahlada Rao and Dr. V. Pandurangadu, A Study to Improve the Customer Service for Supply Chain Management in a Broiler Centre, NCME – 2006, Nov 10-11,2006, (Accepted In Thaper Institute of Tech, Patiyala, Punjab) Ref. NCME -2006, paper no 003

S.No.

Month and Year of Publication

Title of the Paper Name of the Journal

Is the journal recognized by UGC/SCI/ SCIEExpanded (Give details)

Impact Factor if any (Is it given by Thomson Reuter)

1

Vol. 9 No.09S Sep 2017

Simultaneous Scheduling of Machines and Tools in Multi Machine FMS Using Crow Search Algorithm

International Journal of Engineering Science and Technology

Yes UGC-2977

2

Vol. 17, Nos. 1/2, 2018

Simultaneous scheduling of jobs, machines and tools considering tool transfer times in multi-machine FMS using new nature-inspired algorithms

Int. J. Intelligent Systems Technologies and Applications,

Yes UGC22989 Scopus indexed

SJR-0.14 H-index17

3

Vol. 16, No. 3, March 2017

SIMULTANEOUS SCHEDULING OF MACHINES AND TOOLS TO MINIMISE MAKESPAN IN MULTI MACHINE FMS USING NEW NATURE INSPIRED ALGORITHMS

Manufacturing Technology Today,

Yes UGC-3830

4 Vol. 632

Simultaneous Scheduling of Machines and Tools Considering Tool Transfer Times in Multimachine FMS Using CSA

Springer Advances in Intelligent Systems and Computing

Yes UGC49365 Scopus

H-index17

5

225 (2017) 012294 doi:10.1088 /1757899X/225/1 /012294

Simultaneous Scheduling of Jobs, AGVs and Tools Considering Tool Transfer Times in Multi Machine FMS By SOS Algorithm

IOP Conference Series: Materials Science and Engineering

Yes Scopus

H-index19

6 Nov 2016

A Novel metaheuristic method for simultaneous scheduling of machines and tools in multi machine FMS

IET Digital Library International conference on Recent trends in engineering, science & technology 2016

ISBN978-178561-7850

7 Dec 2016 SOS algorithm for

simultaneous scheduling of machines and tools considering tool transfer times in multi machine FMS

Conference proceedings of ICIS 2016

8 accepted

Simultaneous scheduling of machines and AGVs using flower pollination algorithm : a new nature inspired metaheuristic

Manufacturing Technology Today,

Yes UGC-3830

9 accepted

Simultaneous scheduling of machines and AGVs using crow search algorithm : a new nature inspired meta-heuristic
Manufacturing Technology Today,
Yes UGC-3830

I declare that the information provided above is true to the best of my knowledge.

Prof. **K.Prahlada Rao**, ,M.Tech;Ph.D
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