CURRICULUM VITAE

Prof. Chandra Mouli K V V
Date of Birth: 30 July 1968

Department of Mechanical & Industrial Engineering
College of Engineering, Majmaah University,
Kingdom of Saudi Arabia
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Academic Qualifications:

2006-2009 : **Ph.D From IIT Kharagpur**
Department of Industrial & Systems Engineering
Thesis "*An Exploratory Study of Subcontracting Relationships and the Growth of Small and Medium Enterprises in India in the Automotive Industry*"

2004-2006 : **Ph.D From JNT University Hyderabad**
Department of Mechanical Engineering
Thesis "*Meta Heuristics for Single and Multi-objective Constrained Optimization Problems*"

1997-1999 : **M. Tech (Industrial Engineering) from JNT University Hyderabad**
Department of Mechanical Engineering
Thesis "*Modernization of Shop Floor Layout in A Pistons Manufacturing Industry*"

1991-1994 : **AMIE (Mechanical Engineering) from Institution of Engineers (India), Kolkata**

Professional Experience: Academic/Research/Industrial   26 Years

Academic Experience:

2015 - Till date (5 Years) Professor, Dept. of Mechanical & Industrial Engineering,
College of Engineering, Majmaah University, KSA

2001 - 2014 (14 Years)   **GIT, GITAM University, Visakhapatnam**
2009 – 2014, 5.5 Years, Professor, Dept. of Mechanical Engg,
2007 – 2009, 3.0 Years, Associate Professor, Dept. of Mechanical Engg.
2001 - 2006 5.5 Years, Assistant Professor, Dept. of Mechanical Engg.

Industrial Experience
1994-2001 (6.5 years)   Asst. Manager (PPC & IE) in SAMKRG Pistons & Rings Ltd. Hyderabad

Academic Achievements

- ACITE Fellowship for PhD at IIT Kharagpur 2006-09
- JNTU PG -1996, Rank 4
- GATE -1994, Score 99.84 Percentile
- AP CEEP-1986, State 88 Rank

Administrative Assignments and Experience

- Coordinator ABET Department of Mechanical & Ind. Engineering, Majmaah University in KSA
- Asst. Principal. GIT, GITAM Visakhapatnam
- Chairman Board of Studies (Industrial Engineering), GITAM
- Research Coordinator, GITAM
- Member of Several University level committees in GITAM

Areas of Interest

Teaching Interest

- **UG level**   :Thermodynamics, Fluid Mechanics & Machinery, Automatic Control Systems, Dynamics of Machinery, Operations Research, Quality Control & Assurance, Production Planning & Control and Industrial Management.

- **PG Level**   :Total Quality Management, Supply Chain Management, Design Optimization, Systems Modeling and Analysis, Design & Analysis of Experiments, Operations Management.

- **PhD level**   :Research Methodology

Research Interest

- Production Planning and Control
- Meta-heuristics for Design Optimization, Multi-objective Optimization
- System Modeling & Analysis
- System Dynamics
- SMEs and TNCs Inter-firm Linkages

Research Contributions (National and International Journals)
(https://scholar.google.com/citations?hl=en&user=zbjR2owAAAAJ)

a) Paper Communicated

1) Chandra Mouli K V V, Jaya Raj, Vnadana Kodanda Ramarao and Srinivas, V Investigation of Engine Performance of Polyol Ester Based Bio-lubricant - Commercial Motorbike Engine oil Blends" *Journal of Automobile Engineering, Part D (SAGE)* (**Impact Factor)..**

b) Papers Published

2) Chandra Mouli K V V and Mahanty B. '"Policies for Sustainable Growth of the SMEs: A Study in Indian Automotive Component Manufacturing Industry", International Journal of Business Continuity and Risk Management. 19(3), pp. 199-225, (2019) (Inderscience Publisher).

3) Mohammad Kashif Uddin, Rifaqat Rao, K V V Chandra Mouli. "The Artificial Neural Network and Box-Behnken Design For Cu2+ Removal by the Pottery Sludge From Water Samples: Equilibrium, Kinetic and Thermodynamic Studies, *Journal of Molecular Liquids,* 266, pp. 617-627, (2018)*. (Elsevier Publisher)* (**Impact Factor).**

4) Chandra Mouli K V V and Mahanty B. '"Determinants of SME Integration into Global Value Chains: Evidence from Indian Automotive Component Manufacturing Industry", *Journal of Advances in Management Research,* 14(3), 313-331(2017)*. (Emerald Publisher)* (**Impact Factor).**

5) Chandra Mouli, K V V and Mahanty B. "Subcontracting Dimensions in the SMEs: Study of Automotive Components Manufacturing Industry in India", *Journal of Engineering Manufacture Part B,* 230(2), 364-375, (2016) (SAGE Publisher) (**Impact Factor).**

6) Chandra Mouli, K V V.and Srinivas, J. An Optimal Design Approach for a Cellular Manufacturing System", *Journal of Engineering Manufacture Part B*, 221(6), 1101-1106, (2007) (SAGE Publisher) (**Impact Factor).**

7) Chandra Mouli, K V V. and Venkatasubbaiah, K. "Production Planning Under Resource Constraints", *Journal of Scientific and Industrial Research*, 65(12), 966-969, (2006). (**Impact Factor).**

8) Chandra Mouli, K V V., Venkatasubbaiah, K. Mallikarjuna Rao, K. and Acharyulu, S.G. "Particle Swarm Optimization Approach for Vendor Selection", *Journal of The Institution of Engineers (I), Production Engineering,* 87(1), 3-6, (2006). (**Impact Factor).**

9) Chandra Mouli, K V V., Srinivas, J. and Venkatasubbaiah, K. "An Unsupervised Neural network for Solving Transportation Problems", *Journal of The Institution of Engineers (I), Production Engineering,* 86(2), 5-7, (2005). (**Impact Factor).**

10) Chandra Mouli, K V V., Srinivas, J. and Venkatasubbaiah, K. "Optimization and Output Forecasting using Taguchi-Neural network Approach", *Journal of The Institution of Engineers (I), Production Engineering*, 86(1), 54-57, (2006).

11) Srinivas, J., Venkatasubbaiah, K., and Chandra Mouli, K V V. "An Optimal Sequencing Approach for Job-shop Production", *Journal of Scientific and Industrial Research,* 63(5), 448-461, (2004). (**Impact Factor)**

12) Sitamahalakshmi, T and Chandra Mouli, K V V "Extraction of Dimensions for Telugu Characters Recognition: A Case Study", *Advances in Computational Science and Technology*, 4(1), 113-126, (2011).

13) Chandra Mouli K V V, Acharyulu S G "Fuzzy goal Programming Method for Solving Multi-objective Transportation Problems" *Global Journal of Computers Science and Technology*, 11(2), 5-10, (2011).

14) Sitamahalakshmi, T and Chandra Mouli K V V "Performance Comparison of Radial Basis Function Networks and Probabilistic Neural networks for Telugu Character Recognition" *Global Journal of Computers Science and Technology*, 11(4), 9-15, (2011).

15) Chandra Mouli, K V V "An Efficient Method for Solving Multi-objective Solid Transportation Problems" *International; Journal of Applied Engineering Research*, 6(1), 65-72, (2011).

16) Durga Prasad Rao, V., Balakrishna, A. and Chandra Mouli, K V V. "Replacement Analysis of 12 MW Generator Set: A Case Study", *Industrial Engineering Journal*, 36(10), 39-42, (2006).

17) Chandra Mouli, K V V., Srinivas, J. and Venkatasubbaiah, K. "Particle Swarm Optimization Approach for Production Planning Problems", *Journal of Decision and Mathematical Sciences*, 10(1-3), 101-111, (2005).

18) Chandra Mouli, K V V., Venkatasubbaiah, K. and Mallikarjuna Rao, K. "An Efficient Method for Solving Multi-objective Transportation Problems", *Journal of Computers Society of India*, 35(3), 39-46, (2005).

19) Chandra Mouli, K V V., Venkatasubbaiah, K. and Mallikarjuna Rao, K. "An Improved Heuristic Method for Solving Transportation Problems", *Industrial Engineering Journal*, 33(7), 2-5, (2004).

20) Chandra Mouli, K V V., Srinivas, J. and Venkatasubbaiah, K, "A Neuro-Genetic Approach for Optimization Problems" *Journal of Computers Society of India*, 34(2), 19-23, (2004).

21) Sambhu Prasad. S., Satyam, S. and Chandra Mouli, K V V. "Implementation of BPR to Welding Process: A Case Study" *Industrial Engineering Journal*, 32(6), 26-31, (2003).

22) Chandra Mouli, K V V., Nageswara Rao, D. and Sambhu Prasad. S. "Design of Production Plan Policy by using Fuzzy Outranking Technique for a Piston Manufacturing Company: A Case Study" *Industrial Engineering Journal*, 32 (2), 19-21, (2003).

c) Papers Presented in Conferences

1) Chandra Mouli, K V V and Srinivas S, "Studies on Ameliorating Inventory Systems" in Optima 2006 at IIT Kharagpur, 21-22 March 2006.

2) Dukkipati, V. Rao., and Chandra Mouli, K V V. "Optimization and Output Forecasting using Taguchi Method", SAE Series, 930-935, 2006.

3) Chandra Mouli, K V V. "An ELECTRE Method Approach for Production Planning" Recent trends and applications in CAD/CAM at JNTU Kakinada, 27-28 February 2006.

4) Chandra Mouli, K V V. and Srinivas, J. "Ants colony Optimization for Production Planning" UGC National conference in Jodhpur University, Jodhpur, 21-22 March 2004.

5) Chandra Mouli, K V V. "Technology Optimization Through SMED: A Case Study" 44th National Industrial Engineering Conference, Bombay, 21-22 September 2002.

d) Research Projects Undertaken

1. Three Years DST Funded WTI Research Project completed and submitted "Polices for Sustainable Water Resources: A study of Vishakhapatnam Urban Area" (17.75 lakhs) (2012-2014).

2. Two years UGC Funded Research Project completed and submitted on "A Neuro-Genetic Approach for Constrained Optimization" (2004-2006).

e) Industrial Consultancy Services

3. Prediction of Silicon Content in Liquid Steel of VSP: A Multi-variate Statistical and Neural Network Approach completed and submitted to Visakhapatnam Steel Plant (2010-2011).

4. Optimization of Gudgeon Pins Case Hardening in Heat Treatment Process completed and submitted to SAMKRG Pistons & Rings limited, Hyderabad (2009-2010).

5. Co-coordinator for AICTE/ISTE one week short-term course on "Neural networks and Fuzzy Techniques" conducted in GITAM, Visakhapatnam 2003.

f) Research/Guest Lectures in Conferences and Seminars

1. Delivered lecture on "Quality, Reliability and SQC Techniques" in NSTL Visakhapatnam, 24 August 2011.

2. Invited as a resource person to address Lecture on "Research Methodology for Research Scholars" in JITM Parlakhemundi, 27 December 2008.

3. Invited as a resource person to address Lecture on "Optimization and Heuristics Methods for Engineering Applications" in JITM Parlakhemundi, 2 February 2008.

4. Lecture on "Introduction to Neural networks and Its Applications" at Vignan Engineering College Guntur, 25 June 2006.

5. Delivered lecture on "Multi-Criteria Optimization Approaches for Engineering Design" in NSTL Visakhapatnam, 13 March 2006.

6. Invited as a resource person for AICTE Sponsored course Concurrent Engineering to deliver the lecture on "Optimization Using Neural networks in Concurrent Engineering Applications" in SRKR Bhimavaram, 30 October 2005.

g) Courses Attended

1) A one-week course on "Multi-variate Decision Modelling and Applications" at IIT Kharagpur, 0-22 April 2008

2) A one-week course on "Supply Chain Management" at IIT Kharagpur, 5-9 October 2007.

3) A three-week short-term course on "World Class Manufacturing" at BITS Pilani, 2-15 December 2004

4) A one week short-term course on "Neural Networks and Its Engineering Application" at IISc Bangalore 24- 28 August 2002.

h) M.Tech Thesis Guidance

1. Policy Study for Technology Enhancement of an SME Mr. L Harshith (2014).

2. Throughput Time Minimization of Steel Blooms Production in Visakhapatnam Steel Plant Mr G. Sridhar (2013).

3. Prediction of Silicon in Hot Metal: A Multivariate Neural Network Approach, R. Rayudu (2012)

4. Path Optimization of A Two Degree Parallel Manipulators Using Neural networks, K. Srinivas (2004).

5. Multi-objective Optimization of a Gear Design Using Genetic Algorithm, T. Seshaiah (2005).

B.Tech Project Guidance

13 B.Tech Projects guided

i) Contributions to Laboratory Development:

1. Prepared Human Factors Engineering Laboratory manual and established laboratory

2. Prepared Simulation Laboratory manual and established laboratory

j) Contribution to Curriculum Development:

Developed B.Tech Industrial Engineering Curriculum and Established Program

k) Memberships in Professional Bodies

1.Fellow of The Institution of Engineers (India)

2. Fellow of System Dynamics Society of India

l) Social Activities:

Helping students of weaker sections to pursue studies

Eminent Academicians well known to me:

1. Prof. Biswajit Mahanty Department of Industrial and Systems Engineering, IIT Kharapur India, bm@hijli.iitkgp.ac.in

2. Prof. S Sahu, Department of Mechanical Engineering, IIT Bhubaneswar, India sahus@bbs.ac.in

3. Prof. P K J Mahapatra, Department of Mechanical Engineering, IIT Bhubaneswar, India, pkjm@bbs.ac.in

4. Prof. S.G. Deshmukh, Director, ABV Indian Institute of Information Technology and Management, Gwalior, India, director@iiitm.ac.in

5. Prof. M.H Bala Subrahmanya, Department of Management Studies, IISc Bangalore, India, bala@mgmt.iisc.ernet.in

6. Prof. K Venkatasubbaiah, Department of Mechanical Engineering, AU College of Engineering. Visakahapatnam, drkvsau@yahoo.co.in

7. Prof. N Mohan Rao,   Department of Mechanical Engineering, JNTU College of Engineering, Kakinada, nmohan72@rediffmail.com.

8. Prof. K Lakshmi Prasad, Principal, GIT, GITAM University, Visakahapatnam.

9. Prof. D Prasad Rao, Dean, ANITS Visakahapatnam.

Personal Profile

Fathers Name   : K Thatha Rao(Late)
Permanent Address   : 6-294, Ravindra Nagar, Old Dairy farm, Vishakapatnam-530 040,
                           Andhra Pradesh

Wife   : Dr K Uma Maheswari, Homeo Physician
Elder Daughter   : K Mounika Katyayani, MD (Pediatrics, studying in NRI Chinakakani, Guntur)
Younger Daughter   : K Dathrika Vagdevi,   MBBS (Final Year in RIMS Srikakulam)

(K V V Chandra Mouli)

Date: 1 May 2019
Place: Visakhapatnam