Faculty Personal Information

Dr. G. Balaraju

Designation	**:**	Professor
Years of Experience	**:**	15
Email Id	**:**	balaraju.imor@gmail.com
Employment Status	**:**	Full Time - Ratified by JNTUH
Areas of Research	**:**	Scheduling, Flexible Manufacturing Systems and Operations Management
UG Degree	**:**	B. Tech (Mechanical Engineering)
PG Degree	**:**	M. Tech (Industrial Engineering)
Ph. D	**:**	Mechanical Engineering

Subjects Taught:

1. Engineering Drawing
2. Machine tools
3. Production Technology
4. Operations Research
5. Industrial Management
6. Robotics
7. Plant layout and Material Handling system
8. Unconventional machining processes
9. Metrology
10. Production planning and control

No. of publications in International journals: 05

1. Balaraju, G., Venkatesh, S and Reddy, B.S.P., **"**Multi-objective job shop scheduling using hybrid differential evolution approach", Int. J. Advanced Operations Management, Vol.3, No.2, (2011), pp. 122-140.
2. Balaraju, G., Venkatesh, S and Reddy, B.S.P.**,** **"**Multi-Objective Flexible Job shop Scheduling using Hybrid Differential Algorithm", Int. J. Internet Manufacturing and Services, Vol 3, No.3.(2014),pp.226-243.
3. Balaraju, G., Venkatesh, S and Reddy, B.S.P., "A Hybrid differential Evolution approach for Job shop scheduling", Int. J. of Computers and Industrial Engineering *(Accepted)*
4. Balaraju, G., Venkatesh, S and Reddy, B.S.P., "Job shop scheduling with flexible machines using differential evolution algorithm", Int. J. of Advanced Manufacturing Technology
5. Balaraju, G., Shilpa. P., "Elastic deformations, Dynamic and flexibility analysis of Robot manipulator (PUMA -560)", Int. Con. Of Scientists and Researchers, Vol.16, Issue 3,2017.

No. of publications in International Conferences : 03

1. Balaraju, G., Venkatesh, S and Reddy, B.S.P.**,** **"**Multi-Objective Flexible Job shop Scheduling using Hybrid Differential Approach", Innovation for Sustainable Manufacturing. In: Proceedings of the 4th International & 25th All India Manufacturing Technology & Research Conference ,2012, Vol. II, pp. 1221-1227.
2. Balaraju, G, Venkatesh, S and Reddy, B.S.P.**,** **"**A Hybrid Differential Evolution Approach for Flexible Job Shop scheduling", In: Proceedings of the International Conference on Industrial Engineering (ICIE-2011), Vol. I, (2011), pp. 247-251.
3. Balaraju, G., Venkatesh, S and Reddy, B.S.P.**,** **"**A Hybrid differential Evolution approach for Multi-objective job shop scheduling with Alternate Machines", Global Trends & Challenges in Design and Manufacturing. In:Proceedings of the 3rd International & 24th All India Manufacturing Technology & Research Conference, Vol. II,(2010), pp. 841-846.

No. of publications in International Conferences : 06

1. Balaraju, G., Venkatesh, S and Reddy, B.S.P. 'Multi-objective Job shop Scheduling with flexible machines' In: Proceedings of the 4th National conference on *Recent Advances in Mechanical Engineering(RAME)*, 2012, pp. 222-227.
2. Balaraju, G., Venkatesh, S and Reddy, B.S.P. 'A Differential Evolution Algorithm for Job shop Scheduling' In: Proceedings of the 4th National conference on *Trends in Mechanical Engineering*, 2010, pp. 72-77.

3. Balaraju, G., Reddy, B.S.P and Vinod Kumar, V. 'A Genetic Algorithm approach for lot sizing in MRP' In: Proceedings of the National Conference on *Factory Automation, Robotics and Soft computing, 2007*, pp 320-323.

4. Balaraju, G, and Vinod Kumar, V. 'Optimization of Process parameters in drilling of GFRP composites' In: Proceedings of the National Conference on *Factory Automation, Robotics and Soft computing,* 2007, pp 295-297.

5. Balaraju, G, Vinod Kumar, V and Shyam Kumar, N. 'Analysis of wire Drawing- a finite element approach' In: Proceedings of the 3rd National conference on *Trends in Mechanical Engineering,* 2006, pp. 93-96.

6. Balaraju, G. 'Computer aided lot sizing techniques in MRP' In: Proceedings of the 2nd National conference on *Trends in Mechanical Engineering,* 2004, pp. 64-67.

Projects guided:

1. B.Tech – 30
2. M.Tech- 02

Academic achievements:

- Topper in M.E (Industrial Engg.) at PSG College of Technology, Coimbatore
- Stood Class First in B.Tech (Mech.Engg.) at KITS Warangal and awarded Merit Scholarship by Kakatiya University under B.C student welfare association scheme
- Stood Class First in Diploma
- Stood Class First in S.S.C and awarded Telugu Vignana Parithoshikam by Govt. of A.P
- Secured **98.75** Percentile in GATE – 2000.

Memberships in Professional Bodies: MISTE