RESUME

Dr. K.G.DURGA PRASAD

Associate Professor & HOD
Department of Mechanical Engineering,
GAYATRI VIDYA PARISHAD SCHOOL OF ENGINEERING
Rushikonda, VISAKHAPATNAM
Tel.: +91 9848206055
E-mail: dr.kgdp@gmail.com **;** dr.kgdp@gvptc.edu.in

Born on 7th November, 1970 at Visakhapatnam, Andhra Pradesh, India.

EDUCATIONAL QUALIFICATIONS

B.E. (Mechanical Engineering).. Andhra University.. 1994

M.E. (Industrial Engineering).. Andhra University.. 2004

Ph.D. (Mechanical Engineering).. Andhra University.. 2011

WORK EXPERIENCE

Teaching experience: 19 years

Industry experience: 02 years

AWARDS

2014 - International Journal of Advanced Research in Science and Technology announced **IJARST Best Researcher Award - 2013** in the field of Mechanical Engineering.

PROJECTS SANCTIONED

DST-NIMAT Project 2015-2016 for conducting Entrepreneurship Awareness Camp (EAC)

Sanctioned Amount : Rs. 20,000.

Sanctioned Agency: National Science & Technology Entrepreneurship Development Board (NSTEDB); **Department of Science and Technology (DST)**, Govt. of India, New Delhi.

Chief Co-ordinator : Prof. A.Rama Krishna; Co-ordinator: **Dr. K.G.Durga Prasad**

Status of the project : Completed in 2016.

MEMBERSHIPS IN PROFESSIONAL BODIES

Life Member – Institution of Engineers (India), Kolkata.

Charted Engineer − Institution of Engineers (India), Kolkata

CONFERENCES / WORKSHOP / SEMINARS ORGANISED

1. Three day **Entrepreneurship Awareness Camp (EAC)**, Department of Mechanical Engineering, School of Engineering, Gayatri Vidya Parishad College for Degree & P.G.Courses, Visakhapatnam in association with National Science & Technology Entrepreneurship Development Board (NSTEDB); **Department of Science and Technology (DST)**, Govt. of India, New Delhi, 18-2-2016 to 20-2-2016.
2. Three day National Workshop on Computational Methodologies in Mechanical Engineering, Department of Mechanical Engineering, School of Engineering, Gayatri Vidya Parishad College for Degree & P.G.Courses , Visakhapatnam, 09-3-2017 to 11-3-2017.

SESSIONS CHAIRED

1. Chaired a session of Two day International Conference on "Recent Innovations in Engineering, Science, Humanities and Management" held at School of Engineering, GVP College for Degree & P.G.Courses, Visakhapatnam during Aug. 11-12, 2016.

ATTENDED AS RESOURCE PERSON FOR WORKSHOPS/SEMINARS/CONFERENCES

1. Invited as **Resource person** to deliver a lecture to the participants of **National Workshop on Computational Methodologies in Mechanical Engineering**, organized by the Department of Mechanical Engineering, School of Engineering, GVP College for Degree & P.G.Courses, Visakhapatnam held during 9^{th} – 11^{th} March, 2017.

PUBLICATION OF BOOKS

1. K.Narayana Rao and **K.G.Durga Prasad**, A Text book of **Engineering Mechanics**, Falcon Publishers, Hyderabad (2006), ISBN: 93-60155-31-X
2. K.Narayana Rao and **K.G.Durga Prasad**, **General Mechanical Engineering**, Falcon Publishers, Hyderabad (2015), ISBN: 93-80155-41-7
3. **K.G.Durga Prasad**, **Integrating Product Design and Supply Chain Design through QFD,** Lambert Academic Publishing Company, Germany (2012), ISBN: 978-3-659-15430-0.

PUBLICATION OF CHAPTER (S) IN BOOKS

1. **K.G. Durga Prasad** (2017), **Customer- focused Product Development through HOQ-AHP-GRA Hybrid methodology,** Chapter 13, pp.247-267, **Industrial Engineering & Management Practices (International Edition)**, IRPH, New Delhi. ISBN: 978-93-84443-56-6.
2. **K.G.Durga Prasad**, M.V.Prasad, Ch.Hima Gireesh and V.V.V.N.K.Chaitanya (2017): "**QFD-based conceptual design of ergonomic drafting table for engineering students"**, ***Ergonomic Design of Products and Work Systems: 21st Century Perspectives of Asia***, **Springer**. (In press).

SHORT TERM COURSES / WORKSHOPS/SEMINARS/CONFERENCES ATTENDED

1. Participated in **Entrepreneurship Awareness Camp** at Palakoderu, West Godavari Dist. from 30-10-92 to 31-10-92 sponsored by **APCOST** and organized by S.R.K.R. Engineering College, Bhimavaram.
2. Participated in **Quality Improvement Programme** at Hyderabad from 10-7-2000 to 14-7-2000 which was organized by **Technical Teachers' Training Institute (TTTI).**
3. Participated in AICTE sponsored work shop on **Optimization Methods for Engineering Design by Dr. S.S. Rao**, Chairman, Dept. of Mechanical Engg., **University of Miami, Florida, USA** from 5-7-2004 to 10-7-2004 organized by GITAM University at Visakhapatnam.
4. Participated in the **short term course** on **Total Quality Management in Service Organizations** conducted by the **IIT, Kharagpur** during March 22-26, 2007.
5. Participated in **3rd International Conference and 24th All India Manufacturing Technology, Design and Research (AIMTDR)** held at Andhra University, Visakhapatnam, India, during 13-15, December, 2010.
6. Participated in **International Congress on Productivity, Quality, Reliability, Optimization and Modeling**, held at New Delhi, India, during 7-8, February, 2011.
7. Participated in Twenty Seventh National Convention of Chemical Engineers on **Bio-Fuels towards Energy Security and Environment Protection,** conducted by The Institution of Engineers (India), Visakhapatnam Local Centre held at Visakhapatnam, India, during 30.9.2011 to 1.10.2011.

8. Participated in Awareness programme on **Product Life cycle Management**, conducted by The Institution of Engineers (India), Visakhapatnam Local Centre held at Visakhapatnam, India, 22nd January, 2012.
9. Participated in Two day National Workshop on **Advances In Manufacturing Processes (AMP)** conducted by the Department of Mechanical Engineering, University College of Engineering, **JNTU, Vizianagaram,** held on 28-2-2014 & 1-3-2014.
10. Participated in One day workshop on **Lean Manufacturing**, conducted by The Institution of Engineers (India), Visakhapatnam Local Centre held at Visakhapatnam, India, 16th March, 2014.
11. Participated in One day National seminar on **Recent Developments in Multi-Objective Optimization Techniques in the Field of Engineering** conducted by the Department of Mechanical Engineering, Raghu Engineering College, Visakhapatnam**,** held on 8-5-2014 & 9-5-2014.
12. Participated in International Conference on **Management of Ergonomic design, Industrial safety and Healthcare systems (MESH))** held at IIT, Kharagpur, India, during 20-23, December, 2016.
13. Participated in One day National workshop on **Quality Measures in Technical Education** conducted by the Internal Quality Assurance Cell (IQAC), Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam**,** held on 18-3-2017.
14. Participated in One day National Seminar on **Materials and Manufacturing** conducted by the Department of Mechanical Engineering, Andhra University College of Engineering (A), Visakhapatnam**,** held on 23-3-2017.

PUBLICATION OF PAPERS IN INTERNATIONAL JOURNALS

1. **K.G.Durga Prasad**, K.Venkata Subbaiah, K.Narayana Rao and C.V.R.S.Sastry (2010), 'Prioritization of customer needs in House of quality using Conjoint analysis', ***International Journal for Quality Research***, Vol.4, No.2, pp.145-153. [ISSN: 1800-6450] (**SCOPUS**)
2. K.Venkata Subbaiah, **K.G.Durga Prasad** and K.Narayana Rao (2011), 'Customer-driven product planning using Conjoint analysis and QFD-ANP methodology', ***International Journal of Productivity and Quality Management***, Vol. 7, No.3, pp.374-394. (Inderscience) (**SCOPUS**) [ISSN:1746-6474]

3. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2011), 'Cost engineering with QFD: A mathematical model', ***International Journal for Quality Research***, Vol. 5, No.1, pp. 33-37. [ISSN: 1800-6450] (**SCOPUS**)
4. K.Venkata Subbaiah, **K.G.Durga Prasad,** M.U. Bharathi and K.S.S. Rao (2011), 'Integrating Factor Analysis and Analytic Hierarchy Process for Library Service Quality', ***International Journal for Quality Research***, Vol.5, No.3, pp.505- 515. [ISSN: 1800-6450] (**SCOPUS**)
5. **K.G.Durga Prasad**, K.Venkata Subbaiah and G.Padmavathi (2012), 'Application of Six sigma methodology in an Engineering Educational Institution', ***International Journal of Emerging Sciences***, Vol.2, No.2, pp.222-237. [ISSN:2222-4254]
6. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2012): 'Aligning the competitive strategy with supply chain strategy through QFD', ***Journal of Advances in Management Research,*** Vol.9, No.2, pp.189-198. [**Emerald**] [ISSN 0972-7981] (**SCOPUS**)
7. **K.G.Durga Prasad**, M.V.Prasad, A.Chakradhara Rao and P.V.S.C.Manjusha (2013): 'DEA-based Taguchi method for Optimization of CNC End milling Process parameters', ***International Journal of Emerging Trends in Engineering and Development***, Vol.3, No.4, pp.202-211. [ISSN 2249-6149]
8. **K.G.Durga Prasad**, K.Venkata Subbaiah, G.Venu Gopala Rao and G.Padmavathi (2014): 'Simulated Annealing Algorithm for U-Shaped Line Balancing Problem', ***International Journal of Advanced Research in Science and Technology ,*** Vol.3, No.1,pp. 1-7 [ISSN 2319-1783]
9. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2014): 'Multi-objective optimization approach for cost management during product design at the conceptual phase', ***Journal of Industrial Engineering International ,*** Vol.10, No.1, pp. 1-12 [**Springer]** **[GISI IF: 5.65]** (**SCOPUS**)
10. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2014): 'Supply chain design through QFD-based Optimization', ***Journal of Manufacturing Technology Management ,*** Vol.25, No.5, pp.712-733 [**Emerald**] (**SCOPUS**)
11. **K.G.Durga Prasad**, M.V.Prasad and K.Venkata Subbaiah (2015): 'Optimization of process parameters in CNC End milling of Glass – fibre reinforced plastic', ***International Journal for Research in Emerging Science and Technology,*** Vol.2, No.6, pp.60-67. [E-ISSN: 2349-7610]

12. G.Samkeerth, K.Venkata Subbaiah and **K.G.Durga Prasad**, (2015): 'Analysis of key factors affecting labour productivity in steel manufacturing company', ***International Journal of Engineering and Management Research,*** Vol.5, No.5, pp.123-128. [ISSN: 2394-6962]
13. **K.G.Durga Prasad**, M.V.Prasad and B.Lakshmi Manasa (2016): 'Application of Six sigma approach for improving steel quality - A case study', ***International Journal of Scientific Development and Research,*** Vol.1, No.6, pp. 256-261. [ISSN:2455-2631]
14. **K.G.Durga Prasad**, M.V.Prasad, S.V.V.Bhaskara Rao and C.S.Patro (2016): 'Supplier selection through AHP-VIKOR integrated methodology', ***SSRG International Journal of Industrial Engineering***, Vol.3, No.5, pp.1-6.
15. **K.G.Durga Prasad**, K.Venkata Subbaiah and M.V. Prasad (2017): 'Supplier evaluation and selection through DEA-AHP-GRA integrated approach ', ***Journal of Uncertain Supply Chain Management*** , Vol.5, No.4, pp. 369-382.(**SCOPUS**).
16. Ch.Hima Gireesh , **K.G.Durga Prasad**, K.Ramji, and P.V.Vinay (2017): 'Mechanical Characterization of Aluminium based metal matrix composite reinforced with Alovera Powder', ***Materials Today*: *Proceedings*.(In press)**. (Elsevier) (**SCOPUS**)
17. **K.G.Durga Prasad**, K.Venkata Subbaiah, Ch.Hima Gireesh and U.Koushik (2017): 'Evaluation of conceptual product design solutions using House of quality – TOPSIS Integrated methodology, ***SSRG International Journal of Mechanical Engineering***, Special issue, pp.206-212**.**
18. **K.G.Durga Prasad**, M.V.Prasad, R.Sravan Kumar and V.S.D.Prasad (2017): 'Kano-based VIKOR decision model for supplier selection – A case study, ***SSRG International Journal of Mechanical Engineering***, Special issue, pp.206-212**.**

PUBLICATION OF PAPERS IN NATIONAL JOURNALS

1. **K.G.Durga Prasad**, K.Narayana Rao, G.Padmavathi and K.Venkata Subbaiah (2004): 'Total Quality Engineering Education: A Model Developed through QFD', ***The Journal of Engineering Education,*** XVII, No. 4, 39-44. [ISSN:0971-5843] (**ICI**)
2. **K.G. Durga Prasad**, K. Venkata Subbaiah, K. Narayana Rao and G.Padmavathi (2007): 'Enhancing Engineering Education through QFD – A Case Study', ***The Indian Journal of Technical Education,*** Vol.30, No.3, pp. 91-98. [ISSN:0971-3034] (**ICI**)

3. **K.G. Durga Prasad**, K. Narayana Rao, G.Padmavathi and K. Venkata Subbaiah (2008), 'Development of Total Quality Engineering Education model using QFD', ***The Journal of Engineering Education***, Vol.XXI, No.4, 1-6. [ISSN:0971-5843] (**ICI**)
4. **K.G. Durga Prasad**, K. Venkata Subbaiah, Ch. Venu Gopala Rao and K. Narayana Rao (2012), 'Supplier Evaluation through Data Envelopment Analysis', ***Journal of Supply chain Management Systems,*** Vol.1, No.2, pp.1-11. [ISSN:2277-1387]

PUBLICATION OF FULL PAPERS IN PROCEEDINGS OF THE CONFERENCES

1. K. Venkata Subbaiah, K. Narayana Rao and **K.G. Durga Prasad**, (2005): ' Evaluation of design requirements for quality engineering education using fuzzy outranking technique – a case study' ***Proceedings of 10th Annaul International Conference on Industrial Engineering Theory, Applications and Practice***. Clear Water Florida, USA, December, pp.710-717.
2. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2010): 'Aligning the competitive strategy with supply chain strategy through QFD', ***Proceedings of 3rd International Conference and 24th All India Manufacturing Technology, Design and Research (AIMTDR)*** held at Andhra University, Visakhapatnam, India , during 13-15, December , Vol.2, pp.815-820.

PUBLICATION OF ABSTRACTS IN PROCEEDINGS OF CONFERENCES

1. K. Venkata Subbaiah, **K.G. Durga Prasad**, B. Satyanarayana and K. Narayana Rao, (2003): 'Application of QFD for improving engineering education – A study', presented at ***International conference on Quality, Reliability and Information Technology: Trends and Future Directions***, New Delhi, India.
2. K.Narayana Rao **, K.G.Durga Prasad** and K.Venkata Subbaiah (2010), 'Design of Supply chain with dynamic periodic review inventory policy in fuzzy environment, Presented at ***International Conference on Statistics, Probability, Operations Research, Computer Science and Allied Areas in Conjunction with VII IISA and XXIX ISPS Annual Conventions***, 4-8, January , held at Andhra University, Visakhapatnam, India.
3. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao., 'Design of Supply chain through Quality Function Deployment' (2011), Presented at ***International Congress on Productivity, Quality, Reliability, Optimization and Modelling***, 7-8, February, New Delhi, India.

4. K.Venkata Subbaiah, **K.G.Durga Prasad**, G.Padmavathi and K.Narayana Rao., 'Enhancing Quality in Engineering Education through Six sigma Approach (2011), presented at ***Twenty Sixth Indian Engineering Congress***, conducted by The Institution of Engineers (India), Karnataka State Centre, 15-18, December, Bangalore, India.
5. K.Venkata Subbaiah, CH.Suresh and **K.G.Durga Prasad** , 'Prioritization of Engineering Characteristics of a product using HOQ-ANP Approach (2013), presented at ***Indian Technology Congress***, conducted by NIMHANS Convention Centre, 24-25, July, Bangalore, India.
6. K.Venkata Subbaiah, **K.G.Durga Prasad** and N.Sameera , 'Kano-GRA-HOQ Approach for Prioritizing the Supplier Selection Attributes – A Case Study (2013), presented at ***Twenty Eight Indian Engineering Congress***, conducted by The Institution of Engineers (India), Tamilnadu State Centre, 20-22, December, Chennai, India.
7. K.Venkata Subbaiah, **K.G.Durga Prasad** and M.V.Prasad , 'Supplier Evaluation and Selection through DEA-AHP-GRA Integrated approach – A case study (2014), presented at ***Indian Technology Congress***, conducted by NIMHANS Convention Centre, 21-22, August, Bangalore, India.
8. **K.G.Durga Prasad**, M.V.Prasad, Ch.Hima Gireesh and V.V.V.N.K.Chaitanya (2016): 'QFD-based conceptual design of Ergonomic drafting table for engineering students', ***Proceedings of the International Conference on Management of Ergonomic design, Industrial safety and Healthcare systems (MESH)*** held at IIT, Kharagpur, during 20-23, December.
9. **K.G.Durga Prasad**, K.Venkata Subbaiah, G.V.Gourav and Ch.Hima Gireesh (2017): 'QFD-frame work for enhancing quality in engineering educational institutions, ***Proceedings of the International Symposium on Social Business and Sustainable Development (SBSD)*** held at Andhra University, Visakhapatnam, during 5-7, January.
10. **K.G.Durga Prasad**, A.Rama Krishna, B.V.A.Naidu, Ch.Hima Gireesh and D.S.Kumar (2017): 'Bridging the employability skill gap through robust convergence of industry and academia, ***Proceedings of the International Symposium on Social Business and Sustainable Development (SBSD)*** held at Andhra University, Visakhapatnam, during 5-7, January.
11. **K.G.Durga Prasad**, K.Venkata Subbaiah, Ch.Hima Gireesh and U.Koushik (2017): 'Evaluation of conceptual product design solutions using House of quality – TOPSIS Integrated methodology, ***Proceedings of the National Conference on Recent Advances in Mechanical Engineering (RAME)*** held at Andhra University, Visakhapatnam, during 10-11, March.

12. **K.G.Durga Prasad**, M.V.Prasad, R.Sravan Kumar and V.S.D.Prasad (2017): 'Kano-based VIKOR decision model for supplier selection – A case study, ***Proceedings of the National Conference on Recent Advances in Mechanical Engineering (RAME)*** held at Andhra University, Visakhapatnam, during 10-11, March.
13. Ch.Hima Gireesh , **K.G.Durga Prasad**, K.Ramji, and P.V.Vinay (2017): 'Mechanical Characterization of Aluminium based metal matrix composite reinforced with Alovera Powder', ***Proceedings of the International Conference on Material Processing and Characterization (ICMPC)*** held at **GRIET, Hyderabad**, during 17-19, March.

PRESENTATION OF PAPERS IN CONFERENCES

1. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao (2010): 'Aligning the competitive strategy with supply chain strategy through QFD', ***Proceedings of 3rd International Conference and 24th All India Manufacturing Technology, Design and Research (AIMTDR)*** held at Andhra University, Visakhapatnam, India , during 13-15, December , Vol.2, pp.815-820.
2. **K.G.Durga Prasad**, K.Venkata Subbaiah and K.Narayana Rao., 'Design of Supply chain through Quality Function Deployment' (2011), Presented at ***International Congress on Productivity, Quality, Reliability, Optimization and Modelling***, 7-8, February, New Delhi, India.
3. **K.G.Durga Prasad**, M.V.Prasad, Ch.Hima Gireesh and V.V.V.N.K.Chaitanya (2016): 'QFD-based conceptual design of Ergonomic drafting table for engineering students', ***Proceedings of the International Conference on Management of Ergonomic design, Industrial Safety and Healthcare systems (MESH)*** held at **IIT, Kharagpur**, during 20-23, December.

REVIEWER OF INTERNATIONAL JOURNALS

1. **Journal of Advances in Management Research,** Emerald Publications in association with **IIT**, Delhi.
2. **Journal of Thermal Engineering**, publishing by Yildiz Technical University, Turkey.

CITATION INDICES – Google Scholar (Since last 5 years)

Number of citations: **95**
h-Index : **05**
i 10-Index : **02**

B.E/B.Tech/AMIE PROJECT GUIDANCE

1. Application of Six sigma methodology to enhance quality in engineering education-A study – *K .B.Rama Lakshmi, S.Salomi, Y.K.Kumar, P.S.Rao, P.Prabhakar and D.S.Varma,* 2007.
2. Controlling of NO_x Emissions in Automobiles by using Nitrogen Membranes - A study – *K. Veera Raghavulu,* 2007.
3. Performance evaluation of a diesel engine working with CSO-diesel blends – *I.Manoj Krishna, M.Yellaji, M.Santhosh Kumar and G.Siva Kumar,* 2009.
4. Trouble shooting in machining of Rudder Housing Bearing bush onboard ship-A case study – *Satynarayana Sahu,* 2010.
5. Study of marine boiler construction and tube failure analysis – *Abhishek Kumar Singh*, 2012.
6. Water jet flow meter across high pressure turbine blades and nozzle box blades in marine gas turbines – *S.S.Chouhan*, 2012.
7. Shipboard impressed current cathodic protection system – *Ankur Kumar Gupta*, 2012
8. Supplier selection through AHP-Grey Relational Analysis – *N.Devi, B.Balaji, O.N.Varma and Ch.Syam Kumar*, 2013.
9. GRA-based Taguchi approach for optimization of turning parameters – *V.Manjusha, Santhoshi Lakshmi and G.V.N.Varma*, 2013.
10. Conceptual design of a product through HOQ-based optimization – *P.Divaker , M. Swapna, K. Satyanand ,* 2013.
11. A study on preventing the leakage of crude oil in crude oil transfer pump – *M. Sravan Kumar,* 2014.
12. Fault Diagnosis in Fan and Blowers using Vibration Signature analysis – *S.D.Ganesh,* 2014.
13. HOQ-AHP-TOPSIS Integrated Methodology for Conceptual design of a product – *V.Ravi Teja , V.Chrinjeevi, N. Mani Babu and D.Sravan Kumar*, 2015.
14. Supplier selection through AHP-VIKOR Integrated Methodology – *S.V.V.Bhaskara Rao , T.Yamini Lakshmi, G.Daya Sagar and Ch.S.Krishna Teja*, 2015.
15. Development of HOQ-GRA Integrated approach for prioritizing the design requirements of a product – *G.Drikanth , U.Koushik, S.Jagadeep, P.Rohit and K.Sravan Kumar*, 2017.

(Dr.K.G.Durga Prasad)