

## Cirrcullam Vitae

- 1).Name :Dr.Regajendra (OU ID-51020)
- 2).Designation : Professor
- 3).Department/College : Mechanical Engineering, University College of Engineering
- 4).Academic qualifications : BE (Mech Engg), ME (Prod Engg), PhD (IITKGP)
- 5).Specialization : Production Engineering and Robotics
- 6).. UG Degree: :BE, Mechanical Engineering Year:1995 University: Osmania  
University Class/Division: **First Overall Percentage/CGPA: 65**
- 7).. PG Degree: ME(Production Engineering) Year : 2003 University : Osmania University  
Class/Division: **First Overall Percentage/CGPA: 65**
- 8).. PhD : IIT KGP- Title Modelling and Simulation of Robotic Systems
- 9).. Teaching Experience as on 01-08-2024: 27 Years 06 Months
- 10).. Industrial /Research Experience as on 19-10-2006: 00 Years 00 Months

### (b).Papers Published in International/National Journal:

Rajendra, Rega., Pratihari D.K., Particle Swarm Optimization Algorithm vs. Genetic Algorithm to Develop Integrated Scheme for Obtaining Optimal Mechanical Structure and Adaptive Controller of a Robot”, *Intelligent Control and Automation*, 2(4), pp. 430-449, 2011.

Rajendra, Rega., Pratihari D.K., “Particle Swarm Optimization Algorithm vs Genetic Algorithm to solve Multi-Objective Optimization in Gait Planning of Biped Robot”, *Intl. Jl. of Control Engineering and Technology*, 1(2), pp.81-94, 2011.

i). Ambati Sainath, Rega Rajendra, Simulation of stress and forces on single point cutting tool on the onset of turning operation, *Peripex Indian Jl of Research*, pp.99-101, 2013.

ii).Uday Kiran K.L, Rajendra,Rega Comparative study on variation of process characteristics on Al and Die Steel components in sink EDM process, Vol-4(3), *Intl.Jl of Advanced Research in Engineering and Technology*, pp-170-177, 2013.

R. Rajendra, D.K. Pratihari, "Analysis of double support phase of biped robot and multi-objective optimization using genetic algorithm and particle swarm optimization algorithm," *Sadhana*

Goitom Tesfaye, Rega Rajendra; Global Form Deviation Evaluation of Free-form Surface using Coordinate Measuring Machine. *International Journal of Mechanical and Production Engineering Research and Development*, Vol. 7(6), 525-532, 2017. (Scopus indexed)

Goitom Tesfaye, Ravva Sirinivas, and Rega Rajendra; Equi-parametric Sampling Strategy for Evaluation of Higher Degree Free-form Surface using Contact Measurement. *International Journal of advanced research in engineering & technology*, Vol. 8(4), pp. 21–27, 2017. (Scopus indexed)

Goitom Tesfaye, T.S.S Prasad, Rega Rajendra; Isoparametric line Sampling Strategy for Evaluation of Lower Degree Free form surface using Contact Measurement. *International Journal of Engineering and Manufacturing Science*, Vol. 7(2), pp. 171-180, 2017. (UGC Recognized journal)

Goitom Tesfaye, Rega Rajendra; Adaptive sampling strategy of Free-form surface using CMM. *Indian Academy of Science (Sadhana)*, Springer.(Communicated)

### **International Conferences:**

Rajendra, Rega., Pratihari D.K., "Integrated Scheme for Optimization of Mechanical Structure and Controller of 2-DOF Manipulator Tracking Paths.", *Proc. of 5<sup>th</sup> Intl. Conf. on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2010)*, IIT, Kharagpur, 2010, pp. 186-188.

Rajendra, Rega., Pratihari D.K., "Particle Swarm Optimization Algorithm vs. Genetic Algorithm to Solve Multi-Objective Optimization Problem in Gait Planning of Biped Robot. ", *Intl. Conf. on Information Systems Design and Intelligent Applications-2012 (InConINDIA-2012)*, Vishakhapatnam, India, 5-7, January, 2012, *Advances in Intelligent and Soft computing 132, Springer*, pp. 563-570.

K.L.Uday Kiran<sup>a</sup>, G.Chandramohan Reddy<sup>b</sup>, A.M.K.Prasad<sup>c</sup>, R.Rajendra<sup>d</sup> ; Study of Surface integrity Characteristics on Al and Die Steel Components using Copper tool in Sink EDM Process ; 1<sup>st</sup> Intl. Conf. on Advances in Mechanical Sciences 2014 (ICAMS2014 ) , 9-11 January,2014,Hyderabad, India, pp-191-197.

Chandrakanth Achelker<sup>a</sup>, Srinivasa Rao N<sup>b</sup>, G. Appala Raju<sup>c</sup>, Rajendra R<sup>d</sup>, Krishaniah.A<sup>e</sup>, Performance Evaluation of Machine Tool Probe for On-Machine Measurement of 2D and 3D Geometries , *2nd International Conference on Innovations in Automation and Mechatronics Engineering, ( ICIAME 2014)*, 7-8 March 2014,Anand,Gujrat,india,

Manasa Sala , Rajendra Rega "Performance Evaluation of Low Alloy Steel Welds for High Pressure Heater Shells " national conference on "**Recent Trends in Engineering & Science (RTES-2014)**" 2014. Indore 7-8, March,,pp.

Mohammed Anwar, Rega Rajendra, Influence of Metal Inert Gas Welding Speed on the Weld Bead Geometry of EN 10025 of S235JR Steel , national conference on "**Recent Trends in Engineering & Science (RTES-2014)**" 2014. Indore 7-8,March, ,pp.

Goitom Tesfaye, Rega Rajendra, Adaptive sampling strategy of Free-form surface using CMM. International conference on advanced materials and manufacturing 2016, Hyderabad, India.(Presented)

Goitom Tesfaye, Rega Rajendra, Sampling strategy of Free-form using Coordinate measuring machine surface, Indian Society of Mechanical Engineers 2017, NIT Warangal, India. (Presented)

Goitom Tesfaye, Rega Rajendra, Contour based adaptive sampling Strategy of Free-form surface using CMM, Proceeding of COPEN10 2017, IIT Madras chennai, 915-918. (Presented and Published ISBN: 978-93-80689-28-9.)

Goitom Tesfaye, Rega Rajendra, An Artefact Based Continues Performance Evaluation of CMM, 7th International and 28th All India Manufacturing Technology, Design And Research Conference 2018 (AIMTDR 2018)(Submitted).

### **C) Book Chapter**

Goitom Tesfaye, Rega Rajendra, Sampling strategy of Free-form using Coordinate measuring machine surface, Mechanical Engineering for sustainable Development: State of the Art Research, Apple Academic press associated with CRC press, January 2018. (ISBN hard: 978-1-77188-681-9.)

Pratihar D.K., Pandu Ranga V., Rajendra R., Humanoid body control using neural networks and fuzzy logic, Springer Mateor: *Humanoid Robotics: a Reference, Neural Net and Fuzzy Logic Control* (accepted)

**a). Book Published:**

**i). Principles of Engineering Metrology**, Published by Jaico Publishing house, Mumbai, India, 2008, ISBN 978-3-659-26483-2

**ii). Modeling and Simulation of Robotic Systems using Soft Computing-** Lambert Academic Publishing, Germany, ISBN 978-3-659-26483-2

(c).Guiding/Supervision

Degree (M.Phil/PhD)	No.of Students Registered	No.of Students Completed	Degrees Awarded
PhD	08	02	02
ME(Master of Engg)	65	60	60

**(e). National/International Seminars/Conference/Short Course/Workshops Conducted**

i). **Conducted** A 3-day workshop on “**Metrology**” based on ASME Y14.5 GD&T for various College Faculty staff of Mechanical Engineering, at Mechanical Engineering Department, During March 21-23,2013, sponsored by TEQIP-II, funded MHRD, Govt. of India.

i). **Conducted** A 5-day Short Course on “**Knowledge Based Systems in Engineering** “ based on ASME Y14.5 GD&T for various College Faculty staff of Mechanical Engineering, at Mechanical Engineering Department, During July 10-14,2013, sponsored by TEQIP-II, funded MHRD, Govt. of India.

i). **Conducted** A 5-day Short Course on “**Reverse Engineering based Manufacturing** “for various College Faculty staff of Mechanical Engineering, at Mechanical Engineering Department, During July 24-28,2013, sponsored by TEQIP-II, funded MHRD, Govt. of India.

(f). Major/Minor Research Projects: NIL

i). Completed-NIL

ii). On hand/New Projects: NIL

**(g). Any other information -reminder**

i).-Awarded PhD doctoral Degree in May 2012 by IITKharagpur under QIP scheme funded by AICTE and sponsored by Osmania University.

NSS officer ,UCE(A), OU – one year

Asst Chief Wardent-Engg College Hostels, OU,

Warden, Swarnamukhi Hostel

Attend the Productivity Summit, 2006 at Chennai, Organised by IMTMA

Attended Intl. Conf. Admet-2006, New Delhi on Adanceds on Metrology, organised by NPL, during 11-13 December,2006,

Life Member ISTAM -LM/252

ii) Faculty Advisor-for ME(Production Engineering) specialization during May 2003 (6 years) to May 2008 and from May 2011 to May 2013 (2 years).

“FORWARDED” /

SIGNATURE OF THE TEACHER

PRINCIPAL