

Dr. K. Satyanarayana(ID-1171)

Qualification: Ph.D (Mechanical Engineering) (NIT-Warangal, 2013),

MTech (Product Design and Development) (NIT-Warangal, 2009)

B.TECH (MECHANICAL ENGG –JNTUH-2007)

Experience : 1 year

Research interests : Machine Tools, Manufacturing and design

Journal Publications/ Conference Proceedings:



International Journals:

1. **Satyanarayana. Kosaraju**, Anne Venu Gopal, and N. Ravi. "Studies on surface integrity and its optimization in turning Ti-6Al-4V." International Journal of Precision Technology 5(3-4), pp 312-329, 2015
2. **Satyanarayana Kosaraju** and Chandraker, Satyam. "Taguchi Analysis on Cutting Force and Surface Roughness in Turning MDN350 Steel." Materials Today: Proceedings 2.4: 3388-3393, 2015.
3. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, "Analysis for Optimal Decisions on Turning Ti6Al4V with Taguchi-Grey Method", Proc IMechE Part C: Journal of Mechanical Engineering Science, Sage Publication. **(Impact factor 2013; 0.589)**. vol 228, Nos 1, pp 152-157, 2014. DOI: 10.1177/0954406213480599 **(SCI Journal)**
4. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, "Online tool condition monitoring in turning Titanium (Grade 5) using Acoustic Emission: Modeling", International Journal of Advanced Manufacturing Technology, ISSN No 0268-3768, Vol No: 67, pp 1947-1954, 2013 **(Impact factor 2013: 1.779)** DOI: 10.1007/s00170-012-4621-2. **(SCI Journal)**
5. **Satyanarayana Kosaraju** and Venu Gopal Anne, "Optimal Machining Conditions for Turning Ti-6Al-4V using Response Surface Methodology", International Journal of Advances in manufacturing. Vol No: 1, pp 329-339, 2013. DOI: 10.1007/s40436-013-0047-9.
6. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, "Design Optimization of Machining Parameters for Turning Titanium Alloys with Taguchi-Grey Method", International Journal of Machining and Machinability of Materials., Vol. 13, Nos. 2/3, pp 191-202, 2013. DOI: 10.1504/IJMMM.2013.053222
7. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, "Taguchi analysis on cutting forces and temperature in turning Titanium Ti-6Al-4V", International Journal of Mechanical and Industrial Engineering (IJMIE), ISSN No. 2231-6477, Vol-1, Issue-4, pp 55-59, 2012.

8. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Investigations and Modeling of Machining Titanium Alloy – Ti-6Al-4V”, International Journal of Applied Mechanics and materials. Vols. 315, pp 562-566, 2013.
9. Sateesh, N., Rao, P. S., Ravishanker, D. V., & **Satyanarayana, K.** “Effect of Moisture on GFRP Composite Materials”. Materials Today: Proceedings, 2(4), 2902-2908 2015
10. Ramanuj kumar, A K Sahoo and **Satyanarayana Kosaraju**, “Finite element simulation of forces and temperature in turning titanium alloy using DEFORM 3D”, International Journal of Mechanical Engineering and Research, ISSN No. 2249-0019, Vol-3, Issue-5, pp 330-334, 2013.
11. Kumar, Ramanuj, Ashok Kumar Sahoo, **K. Satyanarayana**, and G. Venkateswara Rao. "Some studies on cutting force and temperature in machining Ti-6Al-4V alloy using regression analysis and ANOVA. International Journal of Industrial Engineering Computations. Vols 4, pp 427-436, 2013.
12. Sadasiva Rao T., **Satyanarayana K.**, Praneeth Y., Venu Gopal A, “Studies on The Effect of Approach Angle and Process Parameters in Face Milling”, International Journal of Applied Mechanics and materials. Vols.110-116, pp 3147-3155, 2012.

International Conferences:

1. **Satyanarayana.K***, Venu Gopal.A and Sateesh. N, “Experimental Studies on the effect of rake angle on turning Ti-6Al-4V with TiAlN coated carbides”, 18th International Conference on Mechanical, Automotive and Aerospace Engineering, February 4-5, 2016, Melbourne, Australia. pp 434 - 438
2. **Satyanarayana.K***, Ravi.N , Shivaji Babu.K and Venu Gopal.A, “Surface Integrity And Optimization In Turning Ti6Al4V”, 5th International & 26th AIMTDR conference, December 12-14, 2014, IIT Guwahati, Assam, India. Pp 133-1 -133-5.
3. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Three-dimensional numerical simulation of cutting force in turning Ti-6Al-4V”, **COPEN8** International conference on Precision, Meso, Micro and Nano Engineering, December 13-15, 2013,NIT Calicut, Kerala. pp 1017-1022
4. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Finite Element Simulation of Cutting Forces in Turning Ti-6Al-4V using DEFORM 3D”, **ASME 2013** International Mechanical Engineering Congress & Exposition (IMECE2013), November 15-21, 2013, SAN DIEGO, CA, USA. pp. 1-7
5. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Studies on the Effect of Rake Angle on Main Cutting Force and Surface Roughness in Machining Ti-6Al-4V”, 2nd International conference on Advanced Manufacturing and Automation 2013 (**INCAMA 2013**), during 28-30th March 2013, Kalasalingam university, Tamil Nadu. pp. 565-568
6. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Investigations and Modeling of Machining Titanium Alloy – Ti-6Al-4V”, 3rd International Conference on Mechanical and Manufacturing Engineering

2012 (**ICME2012**), during 20th - 21st November 2012, Universiti Tun Hussein Onn Malaysia, Malaysia. pp. 155-159.

7. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Online Tool Wear Monitoring using Cutting Forces in Turning Ti-6Al-4V”, International Conference on Trends in Industrial and Mechanical Engineering (**ICTIME 2012**), 24-25 March 2012, Dubai, organized by PSRC . pp. 147-150
8. **Satyanarayana Kosaraju**, Venu Gopal Anne and Venkateswara Rao Ghanta, “Effect of Rake Angle and Feed Rate on Cutting Forces in an Orthogonal Turning Process”, International Conference on Trends in Mechanical and Industrial Engineering (**ICTMIE 2011**), 23-24 December 2011, Bangkok, Thailand. pp. 150-15.
9. Manohar Goud K, **Satyanarayana K**, Sadasiva Rao T, Venu Gopal A, “Online tool condition monitoring in face Milling operation using Acoustic Emission”, 3rd international and 24th **AIMTDR** conference, 13-15 December 2010, Andhra University, Visakhapatnam, India. pp .657-662.

Workshops

Name of the Faculty	Title	Year	Details
Dr K. Satyanarayana ID: 1171	FDP on Additive Manufacturing	2014-2015	25-27 March, 2015, GRIET, Hyderabad
	FDP on Guide to a Passionate Teacher	2015-2016	29 June- 04 July, 2015, GRIET, Hyderabad
	FDP on Advancements in MEMS and NEMS Technologies		19-21 November, 2015, GRIET, Hyderabad