

Dr. P.V. Vinay

54-12-11, Vidya Nagar, H.B.Colony, Visakhapatnam, Andhra Pradesh, India.
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Objective

To pursue research and to educate the youth of the nation with values, technology and discipline to enable them choose their endeavour's.

Education

Apr 1994 to Apr 1998 [Nagarjuna University, Andhra Pradesh, India], Bachelor's in Technology with a specialisation in Production Engineering.

Apr 2003 to Apr 2005 [Andhra University, Andhra Pradesh, India], Master's in Engineering with a specialisation in Heat Transfer in Energy Systems.

2015 [Andhra University, Andhra Pradesh, India], Doctor of Philosophy in Mechanical Engineering.

Academic Experience

Working as Professor in the Department of Mechanical Engineering, Gayatri Vidya Parishad College for Degree and PG Courses(A) since July 2018.

Worked as Associate Professor in the Department of Mechanical Engineering, Gayatri Vidya Parishad College for Degree and PG Courses(A) from August 2011 to July 2018.

Worked as Assistant Professor in the Department of Mechanical Engineering, GVP College of Engineering (Autonomous) from November 2002 to August 2011.

Administrative Experience

Working as Director of Engineering and Technology Programs at Gayatri Vidya Parishad College for Degree and PG Courses(A) since November 2024.

Worked as In-charge Director of Engineering and Technology Programs at Gayatri Vidya Parishad College for Degree and PG Courses(A) from November 2023 to November 2024.

Worked as Dean, Academic Affairs of Gayatri Vidya Parishad College for Degree and PG Courses(A), from January 2020 to November 2024 was instrumental in reconfiguring the syllabi of Degree, PG and Engineering Programs twice during the tenure.

Worked as Head of Department of Mechanical Engineering April 2019 to January 2020 during which the department was accredited by NBA.

Papers Presented/Published

1. Subrahmanyam S.V, **Vinay P V**, "Reduction of Rejection Using Statistical Quality Control (SQC) in Machined Components", 3rd INTERNATIONAL AND 24th AIMTDR, Visakhapatnam, 13-15 December 2010.
2. Sesha Pallavi Indrakanti, **Venkata Vinay Pragada**, Avadhani P S, "MULTIPLE IMAGE SECRET SHARING SCHEME", SEDE-2011, Las Vegas, USA, June 20-22, 2011.
3. **Vinay P V**, "MODIFIED SAVONIUS ROTOR FOR DOMESTIC POWER PRODUCTION", International Journal of Engineering Science and Technology (IJEST), Vol. 4, No.07, 2012.

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4. **P. V. Vinay**, Ch. Srinivasa Rao, "Influence of Process Parameters on Grinding-A Review", Trends of Mechanical Engineering & Technology, Vol. 3, issue. 2, 2013, pp. 16-28.
5. **P. V. Vinay**, Ch. Srinivasa Rao, "Grinding Mechanics and Advances-a review", Journal of Mechanical Engineering and Technology, Vol. 5, issue. 2, 2013.
6. K. Pavan Kumar, **P.V.Vinay**, R.Siddhardha, "Thermal and Structural Analysis of Tree Shaped Fin Array", International Journal of Engineering Research and Applications, ISSN : 2248-9622, Vol. 3, Issue 6, Nov-Dec 2013, pp.01-05.
7. **P.V.Vinay**, Ch. Srinivasa Rao, I.H. Nagaraja Rao, Novel Force Modelling Technique for Grinding, Journal of Manufacturing Science and Production, 2014, 14(3), pp 177-182.
8. K. Pavan Kumar, **P. V. Vinay**, R. Siddhardha, "CFD Analysis of Tree Shaped Fin Array on Flat and Symmetrical Wedge Shaped Base Plate", Journal of Thermal Engineering and Applications, Vol.1, Issue 1, Jan-2014, pp.1-6.
9. Varaprasad Bh, Srinivasa Rao Ch, **P.V. Vinay**, Effect of Machining Parameters on Tool Wear in Hard Turning of AISI D3 Steel, Procedia Engineering, 97(2014), pp.338-345.
10. Pavan Kumar Konchada, **Venkata Vinay Pragada**, Himagireesh Chigurupalli, Augmentation of Heat Transfer in a Trough Shaped Solar Collector Compared to Flat Plate Collector Using CFD, Journal of Thermal Engineering and Applications, 2014,1(3), pp.1-7.
11. **P.V. Vinay**, Ch. Srinivasa Rao, Experimental Analysis and Modelling of Grinding AISI D3 Steel, International Journal of Recent Advances in Mechanical Engineering, 2015, 4(1), pp.47-60.
12. **P.V. Vinay**, Ch. Srinivasa Rao, Temperature Assessment in Surface Grinding of Tool Steels, Journal of Mechanical Science and Technology, 29 (11) (2015), pp.4923-4932.
13. Varaprasad Bhemuni, Srinivasa Rao, Chalamalasetti, Pavan Kumar Konchada, **Venkata Vinay Pragada**, Analysis of hard turning process: thermal aspects, Advances in Manufacturing, 3(4), 2015, pp.323-330.
14. P. Konchada, P. Dheeraj, **P.V. Vinay**, S. Purnima, Experimental Analysis on Longitudinal Finned Tube Heat Exchanger and Numerical Investigation on Parameters that Accrue the Overall Heat Transfer Coefficient, Journal of Thermal Engineering and Application, 3(1), 2016, pp.29-41.
15. Pavan Kumar Konchada, **Vinay PV**, Varaprasad Bhemuni, Statistical analysis of entropy generation in longitudinally finned tube heat exchanger with shell side nanofluid by a single phase approach, Archives of Thermodynamics, 37(2), 2016, pp 3–22.
16. Pavan Kumar Konchada, **Venkata Vinay Pragada**, Anil Kumar Chintada, Varaprasad Bhimuni, Optimization of Machining Parameters using Micro NSGA-II for AL6061-Silver Coated Copper Metal Matrix Composite, 16-18 December, 6th International and 27th All India Manufacturing, Technology, Design and Research conference (AIMTDR 2016).
17. Ch.Hima Gireesh, K.G.Durga Prasad, K.Ramji, **P.V.Vinay**, Mechanical Characterization of Aluminium Metal matrix Composite Reinforced with Aloe vera powder, 17-19, March, 7th International Conference of Materials Processing and Characterization(ICMPC 2017).

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18. Varaprasad Bhemuni, Srinivasa Rao, Chalamalasetti, Pavan Kumar Konchada, **Venkata Vinay Pragada**, "Experimental Cae Evaluation and Optimization of Hard Turning of AISI D3 Tool Steel", Journal of Mechanical Engineering Research and Development, 2017, 40(2):pp349-356.
19. K Pavan Kumar, **PV Vinay**, M Anil Kumar, Ch Anil Kumar "Investigation on Al6061 Silver Coated Copper Metal Matrix Composite in Pre and Post Heat Treated Condition" Indian Journal of Science and Technology, 2017,10(29).
20. **P.V. Vinay**, Ch. Srinivasa Rao, Pavan Kumar Konchada, An Analysis of Cutting Force and Surface Finish in Surface Grinding of AISI H13 Steel, Journal of Mechanical Engineering Research and Developments, Vol. 41, No. 1, 2018, pp. 177-189
21. Pavan kumar konchada, MA Kumar, **P.V. Vinay**, C.A. Kumar "Experimental Investigation on Al6061 Silver Coated Copper Metal Matrix Composite Circular Extended Surfaces Pre and Post Heat Treatment" Journal of Thermal Engineering, 2018, 4(2), Special Issue 7,pp.1813-1820.
22. R.Siddhardha, **P.V.Vinay**, M. Sumanth Sekhar, "Constructal design of Array of Tree shaped Heat Sink", International Journal of Research in Advent Technology, Vol.6, No.10, October 2018.
23. **Vinay, P.V.**, Murali, C. (2023). Investigation on the Influence of MQL on Machining Parameters During Hard Turning of AISI316L. In: Pradhan, P., Pattanayak, B., Das, H.C., Mahanta, P. (eds) Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-9057-0_27.
24. Himagireesh, C., **P.V Vinay**, B. Srinu, Taj. (2023). "Selection of dream-11 players in T-20 cricket by using TOPSIS method". Management Science Letters, 13(4), pp.257-264.
25. D. Bhanuchandra Rao, Baliji Reddy Venu, **P.V. Vinay**, M. Jaya Krishna and Raviteja Surakasi. (2023). "Economical Speed Test on a 4-Stroke Single-Cylinder Diesel Engine Running on Diesel Mixed with Chicken Waste Oil", International Journal of Vehicle Structures & Systems, 15(7), 912-914.
26. P.Kiranmayi, Taj, Dr.M.Hymavathi, Dr.V.Vijaya babu, **Dr.P.V.Vinay**, Dr.CH.Himagireesh. (2024) "Application of Machine Learning Ensemble Methods for Prediction of Surface Roughness for Fused Deposition Modeling Processed Parts", Recent Advances in Additive Manufacturing, Lecture Notes in Mechanical Engineering. Springer. DOI : 10.1007/978-981-97-6016-9.
27. **Ch. Murali, P.V. Vinay**.(2025). "Effects of Sol-gel Processed Al₂O₃ as a Lubricant on Machining Parameters of Al-6063", Recent Patents on Mechanical Engineering, 18(2), 201-212. DOI : 10.2174/0122127976305032240429064130.
28. **P.V. Vinay**, M.V. Prasad, Ch. Himagireesh, Taj, K. Balakrishna. (2025) "Mechanical Characterization of Eco-Friendly Hybrid Composites Reinforced with Camel Hair Fiber, Sisal Fiber, and Kenaf Fiber", Journal of Propulsion Technology, Vol. 46 Issue 1 pp. 634-641.
29. **P.V. Vinay**, Ch. Himagireesh, I.S. Pallavi, Y. Dhana Sekhar, M.V. Prasad. (2025) "Predictive Modeling of Shielding Effectiveness in Al6061 Composites Using Machine Learning and Network Analyzer Data: A Comparative Study of Fly Ash and Aloe Vera Reinforcements", Journal of Propulsion Technology, Vol. 46 Issue 1 pp. 665-674.
30. Taj, **P.V. Vinay**, P. Kiranmayi, C.H. Himagireesh, N. Prabhukishore, M. Venkatesh.(2025) "Enhancing road safety: Alcohol detection and engine locking with GPS and GSM tracking", Applications of AI in Smart Technologies and Manufacturing, CRC Press, Vol. 1, pp.296-306.

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Projects:

1. MSME Project worth 3.2 Lakhs for Design and Development of a Manual Tuber vegetable cleaning machine was granted in July 2022.

Patents Published/Granted

1. Taj, P. Kiranmayi, **Dr. P. V. Vinay**, Dr. Ch. Himagireesh, Dr. Kallempudi Vahini, Nakella Ramesh. "IRRIGATION PUMP", Patent No. 398357-001, INDIA, Granted, Filed 2023-10-25, Published 2023-12-21
2. **Dr. P. V. Vinay**, Taj, Dr. Hymavathi M, Dr. Ch. Himagireesh, P. Kiranmayi, M. V. Prasad, Sahil Kataria, Sourav Kumar. "ALCOHOL DETECTION DEVICE", Patent No. 418305-001, INDIA, Granted, Filed: 2024-05-29, Published: 2024-07-12.

Professional Activities

1. Delivered a lecture in DST Sponsored A Three Day National Level Workshop on **Computational Research Using Matlab** held in Ramachandra Engineering College, Eluru from 10th – 12th November 2016 .
2. Delivered a lecture in the one-week Faculty Development Program(FDP) sponsored by AICTE on **Innovations in Renewable Energy Harvesting and Environment Friendly Process Technologies for Sustainable Development** conducted from 23-10-2017 to 04-11-2017 at RVR & JC college of engineering.
3. Delivered a lecture in a one-week Faculty Development Program(FDP) on **Contemporary Developments in Manufacturing Processes, Sustainable Manufacturing and Industrial Technologies** conducted from 9th to 13th June 2020 by Pragati Engineering College in the Online Mode.
4. Delivered a lecture in a one-week Faculty Development Program(FDP) on **Applications of Artificial Intelligence in Mechanical Engineering** held from 19th to 23rd March 2024 at Gayatri Vidya Parishad College for Degree and PG Courses(A), Visakhapatnam.

Seminars/Workshops/Trainings Attended

1. Online Examination Training held at jnt univeristy, hyderabad by sdc sit examination branch from 12th-13th december 2005.
2. Seminar on CAE Centric approach to product design held at GVP College of Engineering by CRANES software on 25th August 2008.
3. Staff Development Programme on Industrial Network Management at GVP College of engineering for women from 2nd to 15th March 2010.
4. Workshop on Insight into Nanotechnology at Andhra University College of Engineering (Autonomous), 8th and 9th July 2010.
5. Workshop on Vedic Mathematics held at GVP College of Engineering by Institute of Scientific Research on Vedas (I-SERVE), Hyderabad, on 26th Feb 2011.
6. AICTE sponsored two day national seminar on Manufacturing Automation Present and Future, at Anil Neerukonda Institute of technology and sciences, Visakhapatnam, on 13th and 14th December 2013.

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7. National Workshop on Emerging Trends in Quality of Engineering Education The Road Ahead, at G.V.P. College of Engineering (Autonomous), Visakhapatnam, on 28th and 29th April 2015.
8. Atal AICTE Sponsored FDP on 3D Printing & Design from 16-11-2020 to 20-11-2020 conducted by Mar Athanasius College of Engineering.
9. Atal AICTE Sponsored FDP on Novel materials and its applications from 4-10-2021 to 8-10-2021 conducted by JNTU-A, Pulivendula.
10. NPTEL FDP certificate on Advanced Green Manufacturing Systems in Jan-Apr 2019.
11. NPTEL FDP certificate on Surface Engineering of Nanomaterials in Jan-Mar 2021.
12. NPTEL FDP certificate on Blockchain and its Applications in Jan-Apr-2022.
13. NPTEL FDP certificate on Arduino in July 2023.
14. Atal AICTE Sponsored FDP on GREEN HYDROGEN GENERATION OPPORTUNITIES AND CHALLENGES IN INDIA from 9-12-2024 to 14-12-2024 conducted by SHRI MATA VAISHNO DEVI UNIVERSITY.

Seminars Organised

1. Organised and chaired a session in National level Student seminar on mechanical engineering IMPETUS 2007, at GVP College of Engineering.
2. Organised and headed a national level student seminar on mechanical engineering IMPETUS 2009, at GVP College of Engineering.
3. Organised and chaired a session in the national student seminar EKATRA 2010, at GVP College of Engineering.
4. Organised a three day workshop on computational methodologies in mechanical engineering in February 2018 at Gayatri Vidya Parishad College for Degree and PG Courses(A).
5. Organised a Five day FDP on Alternate Fuels in June 2020 at Gayatri Vidya Parishad College for Degree and PG Courses(A)
6. Organised a three day workshop on Electric Vehicles in August 2020 at Gayatri Vidya Parishad College for Degree and PG Courses(A).

Ph.D. Guidance

Guiding 6 scholars towards their Ph.D.'s.

Projects Guided

Guided 30 B.Tech., and 4 M.Tech Projects.

Some of the Salient ones being "a solar powered car" in 2008, "solar powered boat" in 2009, E-Bike from reclaimed chassis "indigenous vehicle for grass cutting at a stadium" in 2010, "Wind powered Electricity generator" in 2011, Measurement of inclusions, tool wear and grit size using a software based evaluation methodology in 2015, Vertical Axis Wind turbine for illuminating the highways in 2017, Fresnel lens based water purification in 2020, vortex wind energy generator(2025), Low cost Electric unicycle for urban mobility(2025).