

## Dr. SRIKAR POTNURU

### Expertise:

- Expertise in governance, regulatory/statutory compliance, examinations, admissions, and institutional development.
- Experienced academic and administrative professional with almost a decade of leadership in higher education.
- Experienced in conducting the prestigious TGPSC – 2024 (State Level Civil Service Examinations).
- Skilled in UGC, AICTE, CGPURC, NBA, and NAAC accreditation processes & proficient in national and international rankings.
- To utilize leadership and compliance to boost institutional excellence with operational effectiveness.
- Experienced question paper setter and evaluator for OU and multiple HEIs in Hyderabad

### Research Publications:

- Srikar Potnuru, Ajit Behera, HyukSu Han, PHV Sessa Talpa Sai, **Intelligent Manufacturing and Energy Sustainability: Proceedings of ICIMES 2024. Vol. 114 Springer Nature (Scopus Indexed)**, September 2025.
- D. Harsha Vardhan, K. Manohar Reddy, Y. Santhosh Kumar Reddy, A. Chandra Babu G Srikar Potnuru **Mechanical Characterization of Hybrid GFRP with Alumina (Al<sub>2</sub>O<sub>3</sub>) Filler, Recent Advances in Mechanical Engineering, Vol. 2 PP – 413 -420, LNME, Springer Nature (Scopus Indexed)**, June 2024.
- PHV Sessa Talpa Sai, Srikar Potnuru, Mehmet Avcar, Vishesh Ranjan Kar, **Intelligent Manufacturing and Energy Sustainability: Proceedings of ICIMES 2023. Vol. 372 Springer Nature (Scopus Indexed)**, Dec 2023.
- Thipparthi Raja gopala chary, Srikar potnuru, R. Jose Immanuel, Kuldeep K. Saxena, Dharam Buddhi, Ajit Behera, **Dissimilar metal welding on Mg AZ31 and AA 6061 alloys by using friction stir welding, (IJDeM), <https://doi.org/10.1007/s12008-022-01036-3>. (SCI Indexed)**. Sep 2022
- Dheeraj Gara, Gujjala Raghavendra, P Syam Prasad and **Potnuru Srikar, Determination of third order elastic constants from Morse potential for a Nitinol shape memory alloy, Part L: Journal of Materials: Design and Applications. <https://doi.org/10.1177%2F14644207211058567> . (SCI Indexed)**
- **S. Potnuru, S.K.Sahoo, S.K.Sahu, Anand Babu Kotta, Dheeraj gara, Analytical, numerical and experimental analysis of double collar collet chuck holder by combined extrusion and forging processes, IJMPT, Vol. 62 (1-3), 167-179, 2021. (SCI Indexed)**.
- Dheeraj Gara G **S. Potnuru, Quandaries during Numerical Analysis on Shape Memory Product, IJMPERD, Vol. 10, Issue 1 (Feb 2020), pp.271-282. (Scopus Indexed)**
- **S. Potnuru, S.K.Sahoo, S.K.Sahu, Combined Extrusion - Forging: Simulation, Experimental and Microscopic Investigation of Axisymmetric Collet Chuck Holder, ASME Proceedings, and Vol: 1, Processes. (SCI Indexed)**.
- Manoj Panchal , Raghavendra G, P. Sai kumar Reddy, Omprakash M., **Srikar P**, Study of moisture absorption and its effect on erosion wear behavior of eggshell nanoparticulate epoxy composite, Materials Proceedings, Vol.1 Jan2021. **(Scopus Indexed)**
- E. Gopinath, A. Sai Kanishka, K. Sai Tharun, **Srikar P**. Homogenized mixture (Ni-Al-hBN) plasma sprayed on mild steel by varying spray velocity, Materials Proceedings, Vol.1 June2021. **(Scopus Indexed)**
- **S. Potnuru, R.Vinjamuri, S.K.Sahoo, S.K.Sahu, Three Dimensional Analysis of Combined Forward and Backward Extrusion Forging process Using DEFORM 3D, AMM, 592-594 (2014) pp.791-795. (Scopus Indexed)**
- U.C. Paltasingh, S.K.Sahoo, P.R.Dash, K.C.Nayak. **S.Potnuru**, FEM Analysis And Experimental Investigation For Lateral Extrusion Of Hexagonal Head, IJERA, Vol. 3, Issue 4, (2013), pp.1265-1271.
- U.C. Paltasingh, S.K.Sahoo, P.R.Dash, K.C.Nayak. **S.Potnuru**, Lateral Extrusion of Spur gears with Involute Profile: Finite Element Analysis and Experimental Investigation, IOSRJEN, Vol. 3, Issue 7, (2013) pp.20-30.
- **S.Potnuru, T. Tudu, S.K.Sahoo, S.K.Sahoo, Combined Forward-Backward Extrusion of Socket Adapter: An**

Experimental and Numerical Analysis at CAE2015, organized by GITAM University, 10-12 Dec, 2015.

- P. Gandhi, Y. Sathaiah, Ajith Raj Rajendran, P. Srikar, G. Dheeraj, Emission and efficiency characteristics study of palm sunflower oil biodiesel blend for a sustainable environment. Journal of Positive School Psychology, Vol. 6, No. 2, 535 – 544, 2022. (**Scopus Indexed**).

## Colloquia

- Serving as the organizing secretary for Springer's International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES2019 - ICIMES2022), which receives approximately 200 manuscripts each year from 14 countries including South America, the United Arab Emirates, Malaysia, Bangladesh, and Sri Lanka, in addition to India
- Received a UGC Travel Grant for approximately 2 Lacs for presenting a paper at an ASME conference at the University of Southern California, LA, USA (Possess visiting VISA for the United States for 10 years expiring by 2027).
- Coordinated in achieving the SIRO (Scientific and Industrial Research Organization) recognition under the DST for the CMR Educational Society on behalf of MRCET (Current Institution).

## Patents

- Design of an Energy Efficient Calculation Tool for Mechanical Systems (**Published**), **Application No: 202441088598A**
- Real -Time Monitoring Tool for Mechanical System Performance (**Published**), **Application No: 202441088595A**
- Adjustable foot rest (**Published, in process of granting**) **Application No: No.202431064971 A**
- Compact CPU cooling system (**Published, in process of granting**). **Application No: No.202431076408 A**
- Analysis of the intensive situation in smooth components that are stressed under conditions of multiaxial fatigue (**Published**).
- Synthesis and Characterization Of Hybrid Ni SiO<sub>2</sub> Nanoparticles In Water Glycerin Base Liquids For Heat Transfer Applications (**Published**).