



PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Kanuru, Vijayawada-7

FRESHMAN ENGINEERING DEPARTMENT

Publications Report – SCIE & SCOPUS (2025-26)

SCIE indexed Journal Publications:

1. Dr.S.Lakshmi Tulasi published a research paper titled, "Green Synthesis, Characterization Of N-Doped ZnO@Zeolite Nanocomposite for Enhanced Simultaneous Adsorptive Removal Of Environmental Contaminants" in the journal of 3 Biotech, volume 15, article no 354, pp:1-11,2025, ISSN no 2190-5738.
2. K. Gangadhar, K. Shashidhar Reddy, M. Prameela, A. Wakif Generation of entropy on blood conveying silver nanoparticles embedded in curved surfaces, Proceedings of the Institution of Mechanical Engineers Part E Journal of Process Mechanical Engineering; 2041-3009, Vol.239. Issue.6. pp. 3325-3336
3. Kasaram Roja, Silpa Mandava, Ramu Boddepalli, Vijaya Kumar D, G. Chinna Ram, G. Vijaya Lakshmi, M. Gnana Kiran, Yalamanchili Adinarayana, V. Kesava Reddy, Gouthamsri published a research paper titled, "Multifunctional Aurivillius Bi₄Ti₃O₁₂ ceramics with enhanced ferroelectric and upconversion luminescence via Yb³⁺ + Tm³⁺ Co-substitution." in Journal of Alloys and Compounds, Volume 1063, 187803, (2026). <https://doi.org/10.1016/j.jallcom.2026.187803>

SCOPUS indexed Journal Publications:

1. Hari Kumar, **Rehena Sk.**, Nidhi Mishra, Rama Devi. A., Enas Kamal Zayed, Ali Lamouchi, Naheed Saba, Afsha Jamal published an article entitled "Adopting Technology-Driven Cognitive Strategies to Enhance English Proficiency in Rural Background Undergraduate Students" in Theory and Practice in Language Studies, ISSN 1799-2591, VOL. 15 NO. 7 (2025).
2. **Siva Naga Malleswari V**, Amarendra Babu V, Bhagya Lakshmi K published a paper "Basic Statistical Concepts On Neutrosophic Soft sets" in Neutrosophic sets and systems, Volume 85, July 2025, pp:67-76, ISSN:2331-608X
3. Govindarao Yedlapalli, Nagineni Sudarshan Rao, **Pavani Peddi**, Venkata Swamy Tangeti, and Phani R.S.CH, "Development of a Green Stability Indicating HPLC Method for Quantification of Genotoxic Impurities of Bex gliflozin and LC-MS/MS Profiling of its Degradation Products", Research Journal of Chemistry and Environment, Vol. 29 (8), August 2025, pp. 11-20.
4. Dr. T. Preethi Rangamani published a paper titled, "Reusable Coconut Waste Derived Adsorbent For Effective Elimination of AS (III) and CR (VI) From Aqueous Solutions" in Rasayan J. Chem., 18(3), August 1736-1743(2025) ISSN:0974-1496

5. Rahul Gunupati, S. Lakshmi Tulasi, Rasheed Babu Shaik, L. Bhagya Lakshmi, Venkata Swamy Tangeti published a research paper titled, "Chromatographic profiling of leniolisib impurities using HPLC and LC-MS/MS: degradation behaviour, structural characterization, and in-silico toxicity evaluation" in Journal of Applied Pharmaceutical Research, Volume 13 Issue 4, pp:112 –123, 2025, ISSN: 2348 – 0335
6. G. Raghavendra Ganesh, Shaik Jaffrullah, Wuriti Sridhar, Khaled Al-Farhany, Mohamed F. Al-Dawody, and Mujtaba A. Flayyih published a paper titled, 'Influence of joule heating and exponential heat source on the Casson fluid flow through a thermally graded permeable medium', Al-Qadisiyah Journal for Engineering Sciences, 18(3), pp. 298-306, (2025).
7. Pasupuleti Venkata Ramana, Lakshmi Lavanya. Potturi, A. Venu Gopal Reddy, K. Sunalini, Gousia Sultana, R. Sridevi, G. Kalpana Devi, Nagaiah Bodipalli, M. Jayaranjan, and H. Narendra Kumar published a paper titled, "Periodic Progressive Classroom Instruction in Speaking Skills (PPCISS) for Technical Students" in Theory and Practice in Language Studies ISSN 1799-2591 Volume 15, Number 10, October 2025.
8. P. Aparna, P. Padmaja, H. Niranjana, and P. T. Reddy, "On Certain Subclass Of Analytic Functions Associated With Wright Function," Nonlinear Functional Analysis and Applications, vol. 30, no. 4, pp. 1289–1302, Dec. 2025. ISSN: 1229-1595(print), 2466-0973 (online)
9. Jillellamoodi Naga Madhuri, Tonmoyee Doley, Purnachandra Rao Alapati, Vijaya Kumar P, Linginedi Ushasree, Marvin D. Mayormonte, Aseel Smerat published a Paper on "Dual Cognitive Pathway Architecture for Robust and Dialect-Aware English Reading Comprehension", IJACSA, Volume 17, Issue 1, January, 2026. ISSN: 2156-5570, pp. 68-79.
10. P. Aparna, V. Ganesh Kumar, P. Padmaja, H. Niranjana published a paper titled, "Viscous fluid flow past a permeable sphere- ANN approach, International Journal of Thermofluids, 30 (2025), 101475.
11. P. Jayaprada, R.K. N.R. Manepalli, K. K. Rao, M. C. Rao, T. Satyanarayana, Y. Subbareddy, N. Usha Rani, Ravindranadh Koutavarapu, M. Tanooj Kumar published a paper titled, "Effect of ZnO nanoparticles dispersed in an p-n-undecyloxy benzoic acid liquid crystalline compounds: Optical and order parameter studies", Journal of Applied Spectroscopy, Vol. 93, No. 1, March, 2026. DOI:10.1007/s10812-026-02078-1.
12. Suleiman Ibrahim Mohammad, Dr.P. Lakshmi Lavanya, Raja Natarajan & Asokan Vasudevan published a research paper titled, "Empowering ELT with ICT: Bridging Gender Gaps through Digital Innovation" Architecture Image Studies, Vol. 6, No. 3, pp: 234-245, 2025, ISSN: 2184-8645
13. Rambabu Basireddi, Lakshmi Lavanya Potturi, Venkata Surya Seshagiri Anumula, B. Pavan Kumar, Dina Antar, Bhavani Sushma Garlapati, Monika Sharma, Venkata Siva Kumari Narayanam, Kyialbek Sakibaev, K. Gour published a paper titled, "Task-Based Language Teaching for Technical Education: Strengthening Oral Proficiency of Rural

Engineering Students: Theory and Practice in Language Studies.2026 Vol.16, Issue.4.
pp. 1243-1252, ISSN 2053-0692

14. N. Usha Rani, P. T. S. R. K. Prasad Rao, & K. Ramanjaneyulu published a paper titled, "Qbd Assisted Green and White Analytical UPLC Method Quantification of Pharmacopeia Impurities of Pravastatin in Bulk Drug and Pharmaceutical Formulations". *Journal of Applied Pharmaceutical Research*, 14(2), (2026), 254-268. <https://doi.org/10.69857/joapr.v14i2.1875>
15. Ravindra Changala, K.Kiran Kumar, S. Renu Deepti, V. Preethi, G. Sushma Kiran Kumar Kaveti, Natha Deepthi published a paper on "Statistical Forecasting Based On Conditional Density Estimation", *Journal of Theoretical and Applied Information Technology* Vol 104 No. 3. February 2026. ISSN: 1992-8645, pp. 386-400. <https://doi.org/10.5281/zenodo.18666768>
16. Dr. Peddi Pavani, published a research paper titled, "Agro-Food Waste Mediated Green Synthesis of Phosphorus Containing Hydroxyapatite Nanoparticles for Enhanced Eggplant Growth" in *Research Journal of Chemistry and Environment*, Vol. 30, Issue 5, May, 2026, pp. 44–59. Impact factor: 0.7
17. S.K. Khajamuswareen, G. Sreedevi, , K. Venkatarao, , K. Srinivas, and V. Jayalakshmi published a paper titled, "Impact of Annealing Temperature on Structural Variations, Optical and Magnetic Behaviour of CdO/FePO₄ Nanophosphors", *Asian Journal of Chemistry*, ISSN: 0975-427X, Vol. 38, No. 1 pp. 89-96. (2026).
18. P. Naresh, N. Narasimha Rao, and G. Sreedevi published a paper titled, "Physical Properties of the CaF₂-P₂O₅: MoO₃ Glass System. *Issues of Chemistry & Chemical Technology*", *Voprosy Khimii & Khimicheskoi Tekhnologii*, 2025, Issue 5, p. 48-55.
19. Dr.T. Preethi Rangamani, published research paper titled, "Environmentally Friendly Production of Carbon Nanotubes from Coconut Shell Waste for Cu (II) Ion Adsorption" in *Research Journal of Chemistry and Environment*, Vol. 30, Issue 5, May 2026, pp. 152–156. ISSN. 2278-4527

ESCI Journal Publications:

- i. Dr A Purnachandra Rao published four poems titled, 'Nature: A Human Proxy', 'Humanity: The Visible', 'Humanity: The Invisible' and 'Humanity: The Invincible' in *Literary Voice: A Peer Reviewed Journal of English Studies*, Volume:1, Issue 25, pp: 358-359, September, 2025. (ESCI & Web of Science)
- ii. Vani Padmaja, S. K., Sridhar, W., and G. Raghavendra Ganesh.Vardireddy, S., & Gurrampati, V. R. R. published a research paper titled, 'Magneto Williamson nano fluid movement upon a non-linearly stretching surface under radiation, heat source, and activation energy' in the journal, *Chemical product and process modelling*, ISSN: 1934-2659, May, 2026.

1. Sreela B, Hema R, Purnachandra Rao Alapati, Nashwan Adnan Othman, Sathishkumar P and Vuda Sreenivasa Rao, "Enhancing Automated English-Speaking Tests: The Integration of Natural Language Processing and Machine Learning" *2025 Global Conference in Emerging Technology*, 09-11 May, 2025, (GINOTECH), Pune, India, 2025, pp. 1-5, ISBN: 979-8-3315-0775-6. (IEEE Xplore on 19 July, 2025)
2. J. N. Madhuri, Purnachandra Rao Alapati, Sasirekha P, M. Mythili, Giftsy Dorcas E and Vimochana. M, "Incorporating AI and Deep Learning Approaches into English Language Assessment: Exploring Opportunities and Considerations," *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, Bhopal, India, 04-05 July, 2025, pp.220-225, ISBN:979-8-3315-2595-8.
3. C. Bisaria, Vijaya Kumar. P, Purnachandra Rao Alapati, Kavitha. P, Anuradha. S and Prema. S, "AI-Enhanced English Language Learning: Improving Student Outcomes and Teacher Engagement," *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, Bhopal, India, 04-05 July, 2025, pp. 150-155, ISBN:979-8-3315-2595-8.
4. Sherly Winfred C. R., Malik Bader Alazzam, Purnachandra Rao Alapati, Kasarapu Esther Rani, H. S. Mahdi and Anuradha. S, "Mobile-Optimized Collaborative Writing Assessments: Enhancing English Writing Skills Through Mobile-Based Group Projects," *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, Bhopal, India, 04-05 July, 2025, pp. 266-271, ISBN:979-8-3315-2595-8.
5. Thamarai Selvi M. D; Mandava Vijaya Lakshmi; Purnachandra Rao Alapati; Shagufta Parween; S. Suganthi; B. Kiran Bala, "Innovative Explainable AI System for English Language Learning Applications Using Interactive Feedback and Conceptual Visualization," *2025 International Conference on Intelligent Communication Networks and Computational Techniques (ICICNCT)*, Bidar, India, 05-06 September, 2025, pp. 1-6, ISBN: 979-8-3315-8623-2.
6. Sreedevi. G, Venkatarao. K, Bhargavi.K, sirisha P.V, Jayalakshmi, V. published a paper titled "Chemical Precipitation Synthesis of MoS₂ Nanoflowers and Their Structural and Optical Properties in Proceedings of the International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies. IEMDST- 2024. Springer Proceedings in Physics, ISBN No: 978-981-96-5863-3_6, vol 567. October,25. Springer, Singapore. <https://doi.org/10.1007/978-981-96-5863-36>
7. Gurav, S., Rangamani, T.P., Muthusundar, S.K., Nidhya, M.S., Maram, B. published paper title "Machine Learning Models for Energy Consumption Sensors in Wireless Sensor Networks" pp. 172-177. Proceedings of the International Conference on Modern Sustainable Systems (CMSS-2025) IEEE Xplore Part Number: CFP250Q9-ART; ISBN: 979-8-3315-6510-7. Indexed in Scopus November 2025.
8. M. Vandana, S Leelashree, Teneti Pullarao and Pittala Suresh published a paper with title "Site-specific structural and vibrational properties of Zr doped BiFeO₃" in AIP Conference Proceedings. Volume 3361, Issue-1, 030030 (2025).

9. K. Kiran Kumar published a paper titled, "Physics-Informed Fourier Neural Operators for Heat Transfer Modeling: Leveraging Partial Differential Equations for Enhanced Predictive Accuracy" at the IEEE Sponsored 2025 International Conference on NexGen Networks and Cybernetics (IC2NC) held at Nandha Engineering College, Erode, India during December 1-3, 2025.
10. S. W. Mohsin, P. CPC, P. R. Alapati, R. Sharma, S. Madhuri and S. B, "Cognitive and Stylistic Impact of Conventionalized Expressions on Narrative Perspective and Character Formation in Modern English Fiction," 2026 Sixth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT), Bhilai, India, 2026, pp. 1-6, ISBN: 979-8-3315-7322-5 (IEEE Xplore on 13 March, 2026).
11. P.Lakshmilavanya published a paper titled, "Exploring the Role of Artificial Intelligence in Enhancing English Language Learning Assessment Practices" 6th International Conference on Advances in Electrical Computing Communications and Sustainable Technologies ICAECT 2026.
12. Neha Jain; Gayatri Avinash Amate; Purnachandra Rao Alapati; G.S. Bansode; Sankar Musunoori; Sreela B, published a paper titled, "Real-Time Accent Adaptation in English Speech Interfaces Using Federated Deep Learning Across Multilingual Datasets," International Conference on Responsible, Generative and Explainable AI (ResGenXAI), Centurion University, Bhubaneswar, India, September 10-12, 2025, pp. 1-7, ISBN:979-8-3315-3588-9.
13. Kothuru Bhagya Lakshmi; K. Maha Lakshmi; V. S. N. Malleswari; V. Amarendra Babu; P. Siva Prasad; D. Madhusudana Rao published a paper titled, "Generalization of Prime, Weakly Prime Left Ideals and Weakly Regular Ternary Γ -Semirings" in International Conference on Non-Linear Analysis and Scientific Computing: ICNASC-24, 26–28 September, 2024, Guntur, India, AIP Conf. Proceedings. 3348, 020008 (2026)
14. A. Aravind, S. Parween, Purnachandra Rao Alapati, K. Thiyagarajan, B. Pavan Kumar and P.Nagaraj, "AI Driven Adaptive Storytelling for Language Learning Advancing Personalization Engagement and Linguistic Development," 2026 IEEE International Conference on AI Engineering and Innovations (AIEI), NIT Jamshedpur, India, 26-28 March, 2026, pp. 1-6, doi: 10.1109/AIEI69164.2026.11497860. ISBN: 979-8-3315-6045-4 (IEEE Xplore on 06 May, 2026)

Book Chapter:

1. Kambala Vijaya Kumar, Yalanati Ayyappa, T. Preethi Rangamani, Eswar Patnala, Vinay Kumar Dasari and Gudipalli Tejo Lakshmi published book chapter "Sustainable Education in the Age of 5G and 6G Networks: An Analytical Perspective" pp. 69-83 in Wiley Book Decision-Making Techniques and Methods for Sustainable Technological Innovation on 03 October 2025 <https://doi.org/10.1002/9781394242603.ch4>, Indexed in Scopus November 2025. ((SCOPUS/Springer))




Head
Freshman Engineering Department
PVP Siddhartha Institute of Technology
Kannuru, Vijayanagara, Karnataka



PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY
Kanuru, Vijayawada-7

FRESHMAN ENGINEERING DEPARTMENT

Publications Report – OTHERS (2025-26)

Peer Reviewed Journal Publications:

1. M. Sai Venkata Aditya Vardhan, Dr. T. Preethi Rangamani published a paper titled, "Design of an Automated Fertilizer Intimation Framework using IoT for Tomato Cultivation" in International Journal for Modern Trends in Science and Technology" ISSN: 2455-3778, Vol.12, Issue.1, pp: 12-19, January, 2026.
2. Dr. Sk. Rehena, N Mishra, G Sultana, B Deepa, K Samaikya published a paper titled, "A Comparative Discourse Analysis of Gandhian Philosophy and Ayn Rand's Objectivism: Ethics, Individualism, Social Responsibility, and Architectural Expression in Literary Texts" in Architecture Image Studies, ISSN:2184-8645, vol 7 NO.1, 2026. DOI: <https://doi.org/10.62754/ais.v7i1.1029>.
3. G. Sridevi, Fakruddin Babavali Sk, Naga Prasad M, Murali M & Narasimha Murthy VN "Influence of Electron-donating and Electron-withdrawing Substituents on Thermo Physical Behaviour of 3-Dimethylamino-1-Propylamine + Propiophenone Derivatives" in Physics and Chemistry of Liquids, 1–13. Vol.64, Issue.3, June, 2026, ISSN: 1029-0451 <https://doi.org/10.1080/00319104.2026.2694022>

Books (Others): - NIL -

Book Chapters(Others):

1. Dr. P.Lakshmilavanya, Dr B. Karuna, Dr Sk Rafi Empowering Rural Engineering Students: Strategies for Enhancing Speaking Skills; Critical Pedagogy in ELT: Empowering Learners; ISBN: 978-93-6095-825-1; pp. 29–41, November, 2025, Authors Press, New Delhi.
2. Dr. M. Shyam Sundar published a book chapter titled "Dispossession of Culture and Human Rights in Bruce Pascoe's *Ruby-eyed Coucal*" in the edited volume *Unequal Earth: Human Rights at the Crossroads of Race, Gender and Territory*, edited by Dr. Sarveen Kaur Sachdeva and Dr. Krati Sharma. The book was published in May 2026 by COPAL Publishing Group, Ghaziabad, Uttar Pradesh, and bears the ISBN: 978-81-686032-5-7.

Conference Proceedings (Others):

1. B. Tirumala Rao, B.R. Venkateswara Rao, Ch.Rajyalakshmi, G. Sridevi, M. Rajesh Yadav, G.V.L. Kanth, Sandhya Cole published a paper titled, "Characterization and spectroscopic investigations of zinc alumino lithium borate glasses doped with TiO_2 ", Materials Today: Proceedings, (Elsevier), 2023, online publication date: 2023/6/29, ISSN: 2214-7853.
2. K. Venkatarao, B. Tirumala Rao, G. Sreedevi, Y. Nirmal Rajeev, Sandhya Cole published a paper titled, "Spectral and structural properties of CuO doped ZnS-MoS2 nano composites synthesized by hydrothermal method", Materials Today: Proceedings, (Elsevier), 2023. Online publication date: 2023/6/29, ISSN: 2214-7853.
3. M. Rajesh Yadav, Teti Pullarao, K. Rama Obulesu, Vanitha M K, Pittala Suresh published a paper titled, "Stabilization and structural properties of Nd-doped hexagonal LuFeO_3 nanoparticles" in International Conference on Next Generation Emerging Materials (ICONGEM 2025) Journal of Physics: Conference Series 3246 (2026) 012003 IOP Publishing. ISSN:1742 -6596




Head
Freshman Engineering Department
PVP Siddhartha Institute of Technology
K. J. Somayajulu Road, Vijayawada-520 007.