



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

**FRESHMAN ENGINEERING DEPARTMENT**

## **Publications Report – SCIE & SCOPUS (2024-25)**

### **SCIE indexed Journal Publications :**

1. Chinni Mullangi, Yarlagadda Pavani, P.bharath ,D.Ramachandran & M.Subba Rao published a paper titled, “Thermodynamic parameters of hexylene glycol with isomeric butanols at various temperatures” in *Physics and Chemistry of Liquids* pages-305-320 Volume 62, 2024 - Issue 4
2. Ramadevi Suguru Pathinti, Sunil Gavaskar Dasari, Buchaiah Gollapelli, Sreedevi Gogula, Ramana Reddy M. V., Jayalakshmi Vallamkondu published a paper titled, “Enhanced Ethanol Gas Detection using TiO<sub>2</sub> Nanorods Dispersed in Cholesteric Liquid Crystal: Synthesis, Characterization, and Sensing Performance” in *Journal of Alloys and Compounds*, Volume 994, 5<sup>th</sup> August 2024, 174731. Impact factor: 6.31.
3. Krishna Murthy Potla, Yahya I Asiri, Nannapaneni Usha Rani, Francisco A. P. Osório et.al published a paper titled, Investigation of the linear and nonlinear optical properties in the crystalline phase of a pyrimidine derivative—a potential nonlinear optical material: analysis of its structure, reactivity, and docking studies in *RSC Advances*, Nov 2024, Vol. 2024, no. 14, pp. 37709-37724, ISSN: 2046-2069
4. Shaik Mubeena, G. Sreedevi, E. Ramanjaneyulu, M. Gowri Sankar & D.Ramachandran Jouyban - Acree model assessment for physico-chemical properties of N,N-Dimethylbenzylamine with isomeric chlorobenzene systems published in *Physics and Chemistry of Liquids*, ISSN: 0031-9104 volume 63 Issue:1, pp:118–132
5. K. S. Manjunatha Kumaraa, Aisha Siddiqaa, P. Shiva Kumara, Golla Lavanya, Srinivasa Budagumpi, Gurumurthy Hegde, D. H. Nagaraju and N. Usha Rani published a paper entitled Polypyrrole functionalized MoS<sub>2</sub> for sensitive and simultaneous determination of heavy metal ions in water *RSC Adv.*, 2025, volume 15, issue:1, ISSN: 2046-2069, Impact factor: 3.9, pp: 467–476.
6. Mr. T. Pullarao, Dr. G. Sreedevi published a paper titled “Influence of ZnO Ions on Micro-structural and Luminescence Properties of Host-lattice (CuO–ZrO<sub>2</sub>) Nano Hybrid” in *ECS Journal of Solid State Science and Technology*. 2025 14 047012 2162-8777.
7. E.Ramanjaneyulu, G.Sreedevi, K.Venkatarao published a paper titled “Exploring molecular interactions in active amyl alcohol-haloalkane systems through thermodynamic properties and Jouyban–Acree correlation” in *Physics and Chemistry of Liquids*, 63(2), pp. 272-288, ISSN NO: 0031-9104 (print) and 1029-0451 (online).

### SCOPUS indexed Journal Publications:

1. Rehena. Sk, Santha kumari. K, Mani Bacchu, Afsha Jamal, Nidhi Mishra, Hari kumar. B, Rama Devi. A published a paper titled, “Ayn Rand’s Edifice of Dramatic Characters in We the Living” in *Theory and Practice in Language studies* ISSN No. 1799-2591, Vol. 14. No. 7 (2024) 1981-89.
2. Bhupatiraju, R.V., Peddi Pavani., Edla, S., Rekha, K., Kasimala, B.B.Green published a paper titled “Analytical Approach for HPLC Method Development for Quantification of Sorafenib and Its Pharmacopeia Impurities: LC - MS/ MS Characterization and Toxicity Prediction of Stress Degradation Products” in *Separation Science Plus*, Vol: 7, Issue: 9, September, 2024.
3. Dr. M. Srilakshmi published a paper titled “An Empirical Study on Enhancing Interview Skills Through Activity Based Learning at Graduation Level” in the journal *Theory and Practice in Language Studies*, Vol. 14, No. 9, pp. 2671-2678, September, 2024. ISSN 1799-2591
4. Dr.Pavani Peddi, published a paper titled “Characterization of Pimavanserin Stress Degradation Products by LCMS/MS and Optimization of Green Analytical HPLC Method for Quantification of Pimavanserin and its Impurities” in *Asian Journal of Chemistry*; Vol. 36, No. 10, 30 September 2024, Pg. No: 2452 - 2460, ISSN: 0975-427x
5. Dr. Pavani Peddi, published a research article “Establishing and validating an HPLC protocol for pralsetinib impurities analysis, coupled with HPLC-MS/MS identification of stress degradation products”, *Analytical Science and Technology*, September 2024, 37(5), pp. 280-294 , I S S N : 1 2 2 5 - 0 1 6 3. Impact Factor:0.2.
6. Dr. Silpa Mandava, published a research article “Design of Frequency Reconfigurable Quadruple Band Notched Ultra - Wideband Antenna”, *Progress in Electromagnetics Research C*, November, 2024, Vol. 150, 27-36
7. R. Deepa, Sk. Rehena, A. Neeraja Padma, M. K. Padmalatha, Enas Kamal Zayed, Meera Karthikeyan Nair Sathikumari, Afsha Jamal, Naheed Saba published a paper titled, “ICT-Based Teaching Aids to Enhance English Language Proficiency of Indian Engineering Students” in *Theory and Practice in Language Studies*, 2024, 14(12), pp. 3699–3711.
8. Yanduru Purna Chandra Shekhar Anil Kumar, Uppuluri Venkata Kalyani, Vyakaranam Seethamahalakshmi, Talagadadevi Srinivasa Rao, Venkata Ramana Reddy Gurrampati, Lavanya Sharma published a paper entitled, ‘Chemical Reaction and Thermal Radiation Effects on MHD Casson and Maxwell Nanofluid Flow over a Porous Stretching Surface’ in *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, ISSN: 2289-7879, Volume 124, Issue 2, (2024), 208-219.
9. Pothanna Nalimela, Srinivas Joshi, Aparna Podila, Padmaja Podila, Rajashekar, Pemmaraju, Steady Flow of Thermo-Viscous Fluid between Infinitely Stretched Porous Parallel Plates-A Perturbation Technique, *CFD Letters* 17, Issue 1 (2025) 78-89, ISSN: 2180-1363

10. Usha Rani N, Ramanjaneyulu Kongara, Pavani P and Tulasi S. L. published a paper entitled “Green synthesis of  $\text{NiO-SnO}_2$  nanocomposite using fruit extract of *Kigelia africana* (Lam.) Benth. And evaluation of its electrochemical performance as electrode material for supercapacitors in Indian Drugs, Volume. 61 , Issue No.12 , Page No. 28-36, ISSN: 0019462x
11. Peddi Pavani published a paper entitled “Biogenic Synthesis of Potassium Nanoparticles from *Artocarpus Hirsutus* Leaf Extract: A Novel Nano Fertilizer for Enhanced Growth of *Vigna radiata*” Research Journal of Chemistry and Environment, Vol. 29 (3), January - March (2025), pp: 95-106, ISSN:0972-0626.
12. Purnachandra Rao Alapati, A. Swathi, Jillellampati Naga Madhuri, Vijay Kumar Burugari, Bhuvaneshwari Pagidipati, Yousef A. Baker El-Ebiary and Prema S, “Improving English Writing Skills Through NLP-Driven Error Detection and Correction Systems” International Journal of Advanced Computer Science and Applications (IJACSA), 16(2), 2025. ISSN: 2156-5570, pp. 1098 – 1110.
13. Lakshmi Tulasi, S. Sustainable Plant Growth Promotion and Seed Germination via *Ficus Exasperate* Leaf Extract, Characterization Of Green Synthesized Magnesium Oxide Nanoparticles, Rasayan Journal of Chemistry, Vol.18, Issue. 1, pp. 367-372, ISSN:0976-0083, January – March, 2025.
14. Tatavarti Bhagya Kumar, Usha Rani N., Tangeti Venkata Swamy and Tulasi Bhavani K. ‘Chiral LC method development for stereo-selective separation and quantification of Ivosidenib and its S,R and R,R isomeric impurities in drug substance and finished product, Research Journal of Chemistry and Environment Vol. 29 (4) April (2025) ISSN: NO-0972-0626
15. Rajesh Varma B, Usha Rani N, Prasada Rao P.T.S.R.K., Rekha KII, Sreenivasa Rao B Published a paper title “LC-MS/MS Identification of Ozanimod Degradation Products and Development of a Green HPLC Method for Impurity Quantification” in Methods and objects of chemical analysis, 2025, Vol. 20, Issue No. 1, Page number : 65-71, ISSN :2413-6166. Impact factor: 0.138
16. Vyakaranam Seethamahalakshmi, Anupama Anumolu, Ayyalappagari Sreenivasulu, Karnati Veera Reddy, Ponnada Sathya Sai Nagalakshmi, Divya Reddy, Gurrampati Venkata Ramana Reddy, published a paper title “Thermophoresis and Heat and Mass Transfer Effects on Multi-Heat-Dielectric Nanofluid Flow at the Stagnation Point” in Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, vol: 128 Issue No. 2: April (2025) pg.no:98-111, ISSN (Online): 2289-787
17. V. Seethamahalakshmi, U. Venkata Kalyani, A. Padma, P.S.S. Nagalakshmi, G.V. Ramana Reddy, Charan Kumar Ganta, Vedyappan Govindan, Haewon Byeon, Seepana Praveenkumar,, Busayamas Pimpunchati, “Effects of mass transfer and MHD Casson nanofluid heat transfer on thermophoresis at stagnation point” in Case Studies in Thermal Engineering Volume 69 (2025) 105775, ISSN: [2214-157X](#). pp. No:1-12

18. Lakshmi Tulasi. S Sumalatha. P Shaheda Niloufer Usha Rani. N Pavani. P published a Research article titled, Harnessing Ficus exasperata Leaf Extract for Sustainable Magnesium Oxide Nanoparticles with Antimicrobial Activity in International Journal of Advancement in Life Sciences Research ISSN:2581-4877 Vol 8, Issue 2, Page No:177-185, May 2025.
19. P.T. S. R. K. Prasad Rao, K. Ramanjaneyulu, N. Usha Rani published a Research article titled, "Biofabrication of Ruthenium Oxide Nanoparticles Using Leaf Extracts of Causonis trifolia (L.) and Evaluation of their Biocompatibility, Antioxidant, and Anti-Skin Cancer Potentials in 0.ISSN:2581-4877 Vol 8, Issue 2, Page No:13-26, May 2025.
20. Dr.M.Prameela published a Research article entitled "Evaluation of Homogeneous-Heterogeneous chemical response on Maxwell-fluid flow through spiraling disks with nonlinear thermal radiation using numerical and regularized machine learning methods" in International journal of Modelling and Simulation.

#### **ESCI Journal Publications:**

- Dr. A. Purnachandra Rao published three poems, 'Patriotism', 'Fruits of Non-Violence', and 'Post-Independent India' in Literary Voice: A Peer Reviewed Journal of English Studies, Volume:1. Issue 23. September, 2024 (Published in November, 2024), ISSN: 2277-4521. pp: 559-560. (ESCI & UGC-CARE)

#### **CONFERENCE PROCEEDINGS (SCOPUS):**

1. Mubashira Vazhangal; Purnachandra Rao Alapati; Punit Pathak; P.Kavitha; Veera Ankalu Vuyyuru; I Infant Raj published a conference proceedings titled, "Transforming Language Learning: Harnessing Neural Networks for Enhanced Adaptive Assessment in English Teaching" in 2024 Third International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT); K. Ramakrishnan College of Engineering, Tiruchirapalli, 24-26 July 2024; ISBN:979-8-3503-6908-3; (IEEE Xplore & SCOPUS)
2. K. Chandrasekhar, S. Sarwar, Purnachandra Rao Alapati, K. S. Punithaasree, P. Pathak and B. K. Bala, "Empowering Spoken English Assessment: Advanced Deep Learning Techniques for Automated Evaluation" 2024 International Conference on Intelligent Systems and Advanced Applications (ICISAA), Pune, India, 25-26 October, 2024, pp. 1-6. ISBN: 979-8-3315-3994-8. (IEEE Xplore & SCOPUS)
3. V. Moses Jayakumar, R. Rajakumari, P. R. Alapati, M. Manchanda, M. Vimochana and B. Kiran Bala, "Applying Artificial Intelligence in English Language Learning for Customized Education," 2024 International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA), Nagpur, India, 2024, pp. 1-6, ISBN:979-8-3315-1795-3 (IEEE Xplore & SCOPUS)
4. V. Saranya, G. R. K. Murthy, Purnachandra Rao Alapati, M. Mythili, K. Swarnamughi and B. K. Bala, "Optimizing English Lexical Databases with BERT and Reinforcement Learning," 2025 Fifth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 09-10 January, 2025, Bhilai, India, pp. 1-5, ISBN: 979-8-3503-5623-6; (IEEE Xplore & SCOPUS)

5. V. M. Jayakumar, R. Rajakumari, Purnachandra Rao Alapati, S. Otero-Potosi, D. N. Malleswari and M. Karthik, "Enhancing English Language Assessment in Educational Settings using Natural Language Processing Techniques," *2025 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC)*, Silchar, India, 27-28 February 2025, pp. 438-443. ISBN:979-8-3315-2389-3; (IEEE Xplore & SCOPUS)

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