



P.B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE

Siddhartha Nagar, Vijayawada – 520 010

Autonomous - Re-accredited at 'A+' by the NAAC - ISO 9001 - 2015 Certified

College with Potential for Excellence-Phase-II (Awarded by the UGC)

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Research Improvements – P.Nos.2 to 14

Books / Chapters published – P.No.15

Patents published – P.Nos.16

2022

1. Dr.M. Manoranjani, HoD, Chemistry published a paper entitled “Analytical method development and validation of Dexemethylphenidate and Serdexmethylphenidate by using RP – HPLC in bulk and pharmaceutical dosage form, ISSN:0975 – 7058, vol:14(2), pp:110 – 115, March, 2022 in International journal of applied sciences, Scopus.
2. Dr.M. Manoranjani, HoD, Chemistry published a paper entitled “Assay method development and validation of Cilnidipine and Ramipril, Characterization of its degradants by using LC-MS/MS, ISSN: 0975-7058, Vol:14(2), pp:276-285, March,2022 in International Journal of Applied, Scopus.
3. Dr.M. David Raju, Associate Professor in Chemistry published a paper entitled “A Sonochemical Access to 5-Aryl Substituted Pyrazolo[1,5-a] Pyrimidines as Potential Inhibitors of TNF- α ” in a journal of Polycyclic Aromatic Compounds of March, 2022, ISSN: 1563-5333.
4. Dr.P.T.S.R.Prasad Rao I/C Department of Chemistry (UG) published a paper entitled “*Green Synthesis of Manganese oxide nano particles using Kigelia Africana(LAM) benth . Aqueous root extract and influence on Chickpea seen germination and plant growth*” in Indian Drugs 59(04) April 2022.
5. Dr.M. Manoranjani, HoD, Chemistry published a paper entitled “Evaluation of Furnonisins Contamination using liquid chromatography mass spectrometry in corn samples collected from different locations”, ISSN:1998 – 409X, Apr – Jun:2022, 16(2), 148 to 155 in Asian Journal of Science - Scopus.
6. Dr.M. Manoranjani, HoD, Chemistry published a paper entitled “New Method for the Simultaneous Estimation of Fenofibrate and pitavastatin by using RP – HPLC in bulk and Pharmaceutical Dosage form”, ISSN : 0044-0477, vol.21, issue – 7, July, 2022, PP:890 – 901in YMER - Scopus.
7. Dr.T.N.V.S.S.Satyadev, Assistant Professor in Chemistry published a paper entitled “Method Development and Validation for The Simultaneous Estimation of Flupentixol and Escitalopram by Using Rp-Hplc. Dr. T N V S S Satyadev, Chintalapudi Ramakrishna. YMER || ISSN: 0044-0477, VOLUME 21: ISSUE 7 (July) – 2022. 912-921. DOI:10.37896/YMER21.07/74. SCOPUS INDEXED.
8. Dr.M. Manoranjani, HoD, Chemistry published a paper entitled “LCMS method development and validation for the estimation of Tivozanib in Rat Plasma in YMER vol.21, issue:8, 1012 – 1022, ISSN:0044-0477, Aug,2022- Scopus.
9. Dr.M. David Raju, Associate Professor in Chemistry published a paper entitled “Validation of LC-MS/MS Method for Monitoring of Upadacitinib in Rat Plasma Samples” 13(2):83–88, YMER vol.21, issue:8, 1012 – 1022, ISSN:0044-0477, Aug,2022.
10. Dr.T.N.V.S.S.Satyadev, Assistant Professor in Chemistry published a paper entitled “Bio Analytical Method for the Estimation of Remogliflozin Using LC-MS.YMER,

11. Dr.T.N.V.S.S.Satyadev, Assistant Professor in Chemistry published a paper entitled “Zn (OAc)₂.2H₂O – Catalysed One- Pot Synthesis of Divergently Substituted Imidazoles. ISSN 1927-730X (Online) - ISSN 1927-7296 (Print) DOI: 10.5267/j.ccl.2022.8.007.SCOPUS INDEXED.
12. Dr.T.N.V.S.S.Satyadev, Assistant Professor in Chemistry published a paper entitled “A New Related Substances Method Development and Validation of Two Anti-Cancer Drugs by Using Effective Liquid Chromatographic Method. International Journal of Applied Pharmaceutics. ISSN- 0975-7058Vol14,Issue2, 2022, 116-124. DOI: <https://dx.doi.org/10.22159/ijap.2022v14i2.43582>. SCOPUS INDEXED.
13. Dr.T.N.V.S.S.Satyadev, Assistant Professor in Chemistry published a paper entitled “Molecular Interactions of Ethyl Butyrate with Alkoxyalkanols.. DICKENSIAN JOURNAL, ISSN No.: 0012-2440 VOLUME 22, ISSUE 4, 2022, 303-318. SCOPUS Indexed UGC Care II listed Journal DOI: 10.12001.DK.I20.

2021

14. **Dr. M. Manoranjani**, HOD, Chemistry published a paper title “Affordable Reverse Phase Fluid Chromatographic Strategy For The Assessment Of Fosamprenavir In Tablets, in Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 6 , July,2021, ISSN No.: 5118-5122.
15. **Dr. M. Manoranjani**, published a paper title “In Vitro Examine Of Risperidone In Drug Tablet Dose Structure Using Reverse Phase Fluid Chromatographic (RP-HPLC) Strategy” in International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), December, Special Issue, 2021, 10(12): 74-80, www.ijbpas.com, ISSN No.: 2277-4998.
16. **Dr.M.David Raju** published a paper title “A Facile and Efficient Synthesis of bis(Imidazo[1,2-a]pyridin-3-yl)methane and vinyl derivatives, Volume 19 , Issue 1,2022,Page: [53 - 58], 22-10-2021, 1570-1786, 0.867 (2021-2022), DOI: [10.2174/1570178618666211022144225](https://doi.org/10.2174/1570178618666211022144225).
17. **Dr.M.David Raju** published a paper title “A Sonochemical Access to 5-Aryl Substituted Pyrazolo [1,5-a]Pyrimidines as Potential Inhibitors of TNF- α Polycyclic Aromatic Compounds, 8-03-2022, 1563-5333, 3.744 (2021-2022), <https://doi.org/10.1080/10406638.2022.2028869>
18. **Dr.T.N.V.S.S. Satya Dev**, Assistant Professor in Chemistry published a paper title “A New Selective Separation method development and Validation of Cabozantinib and Nivolumab Using HPLC” in J. Pharm. Sci. & Res. Vol. 13(3) , 188-192, 2021, 0975-1459.
19. Molecular Interactions of Ethyl Butyrate with Alkoxyalkanols. Aparna Seetharam K, KavithaCh, **T.N.V.S.S.Satyadev**, Syama Sundar B- Dickensian Journal -VOLUME 22, ISSUE 4, 2022 - Page numbers 303-318. Impact Factor: 6.3.
20. A New Related Substances Method Development and Validation of Two Anti-Cancer Drugs by Using Effective Liquid Chromatographic Method. **T N V S S SATYADEV**, Chintalapudi Ramakrishna International Journal of Applied Pharmaceutics, ISSN-0975-7058 Vol 14, Issue 2, 2022, Pages: 116-124. Impact Factor:
21. **Dr.T.N.V.S.S.Satyadev**, Asst. Professor in Chemistry published a paper entitled “Validated Method Development for the Assay of Velpatasvir in Pharmaceutical

Formulations” in JETIR May 2021, Volume 8, Issue 5, Pages 257-266. ISSN-2349-5162 IF7.95. UGC Approved, [UGC Approved Journal No 63975](#).

22. **Dr.P.T.S.R.K.Prasad Rao** published a paper entitled “ Green synthesis , characterization, antioxidant, antibacterial and photocatalytic activity of Suaeda maritime(L) dumort aqueous extract mediated copper oxide nanoparticles” in Journal of Genetic engineering and biotechnology,**SPRINGER,Scoups,2021**.(I.F. 3.82)
23. **Dr.P.T.S.R.K.Prasad Rao** published a paper entitled “A study of Method Development and validation for simultaneous Estimation of Pemetrexed and cisplatin using RP – HPLC” in **J. Pharm. Sci. & Res. ,Scoups-indexed Vol. 13(3), 2021, 143-148.**

2020

24. **Dr.M.Manoranjani**, HOD, Chemistry **published a paper** in Asian Journal of Chemistry, Vol. 33, No. 3 March, 2021, pp:521-526 on “Simultaneous Determination and Estimation of Aflatoxins (B1, B2, G1 and G2) by Liquid Chromatography Coupled with Mass Spectrometry (LC-MS) Method in Corn Samples”.
25. **Dr.M.Manoranjani**, HOD, Chemistry **published a paper** “A study of method development validation and forced degradation for simultaneous quantification of Cisplatin and Fluorouracil in bulk and pharmaceutical dosage” form by RP-HPLC vol 13(3) 155-161 J.Pharm.Sci.& Res, International vol:13(3) pp:155-161, **ISSN: 0975-1459. Scopus Indexed.**
26. **Dr.M.David Raju**, Dy.HOD, Chemistry **published a paper** in International Journal for Modern Trends in Science and Technology, 7(01): 162-169, 2021, ISSN: 2455-3778 online, “Synthesis of Zinc Oxide Nano-Particles using Anthocephalus Cadamba Plant Extracts and Explores its Anti-Oxidant, Anti- Inflammatory and Anti-Diabetics Activity”.
27. Validated Method Development For The Assay of Brexpiprazole in Pharmaceutical Formulations **Dr T N V S SSatyadev** ,VentrappagadaJavali. **Journal of Emerging Technologies and Innovative Research (JETIR)**. ISSN 2349-5162, Vol 7, Issue 11, November, 2020., 715-722. UGC Approved (63975). IF 5.87.
28. **Dr.P.T.S.R.K.Prasad Rao** published a paper “Nano silver particles catalyzed synthesis, molecular docking and bioactivity of α -thiazolylaminomethylene bisphosphonates” in Phosphorus, Sulfur, and Silicon and Related Elements, Taylor & Francis group,2020, VOL. 195, NO. 5, 409–420, (ELSEVIER), SCOUPS.

DEPARTMENT OF COMPUTER SCIENCE

2022

29. **T.Srinivasa Ravi Kiran**,” “Plant Disease Prediction and Classification using Deep Learning ConvNets”, 2021 IEEE International Conference on Artificial Intelligence and Machine Vision (AIMV), 2021 AIMV, 978-1-6654-4211-4/21/\$31.00 ©2021 IEEE, DOI: 10.1109/AIMV53313.2021.9670918, January 2022, Scopus Indexed.

2021

30. **Dr.T.S. Ravi Kiran**, Department of Computer Science published an article on "An Efficient Covid19 Epidemi Analysis Prediction Model Using Machine Learning Algorithms" Published in the Month of Dec,21 and also updated in SCOPUS.
31. **Dr.T.S. Ravi Kiran**, “Heart Disease Prediction using Feature Selection and Ensemble Learning Techniques”, Proceedings of the Third International Conference on

Intelligent Communication Technologies and Virtual Mobile Networks, ICICCV,2021, DVD Part Number: CFP21ONG-DVD, 978-0-7381-1182-7, February 2021 IEEE, Scopus Indexed.

32. **Dr.T.S. Ravi Kiran**, “Cancer Prediction using Algorithms and Machine Learning”, Springer Nature Singapore Pte Ltd. 2021 A. K. Luhach et al. (Eds.): ICAICR 2020, CCIS 1393, pp. 62-70, 2021, ICAICR 2020, https://doi.org/10.1007/978-981-16-3660-8_6, June 2021, Springer International, Scopus Indexed.
33. **T.Srinivasa Ravi Kiran**, “Implementing Multilevel Graphical Password Authentication Scheme in Combination with One Time Password”, International Conference on Innovative Computing and Communications, Advances in Intelligent Systems and Computing, AISC, Volume 1387, Advances in Intelligent Systems and Computing book series, https://doi.org/10.1007/978-981-16-2594-7_2, August 2021, Springer Series.
34. **T.Srinivasa Ravi Kiran**,“An Efficient Covid19 Epidemic Analysis and Prediction Model Using Machine Learning Algorithms”, International Journal of Online and Biomedical Engineering (iJOE), Issue 11, VOL. 17 NO. 11 (2021) , 17(11), pp. 176–184, <https://doi.org/10.3991/ijoe.v17i11.25209>, November 2021, Scopus Indexed.
35. **A.Kavitha**, “A Novel Approach for Data Sharing Scheme in Cloud Computing With Attribute Based Encryption (ABE)”, Dogo Rangsang Research Journal, UGC Care Group I Journal, ISSN : 2347-7180, Vol-08 Issue-14 No. 03: 2021, PP 107 to 111, DOI : 10.36893.DRSR.2021.V08I14.107-111, Impact Factor: 7.12, Nov-21, https://journal-dogorangsang.in/no_3_Book_21.html

2020

36. **S.P.V.N.D. Sunitha**, Assistant Professor in Computer Science published research paper titled ‘Updating Policy Data By Delegation-Aware Encryption Strategy’ was published in DogoRangsang Research Journal an UGC Care Group-I Journal ISSN: 2347-7180 Vol-11 Issue-01 – 2021.
37. **Dr.T.S. Ravi Kiran**, HOD, Computer Science and **Sri G. Samrat Krishna**, Assistant Professor in Computer Science published a research paper titled ‘Testing performance of RaspberryPi as IDS using SNORT’ in Journal ELSEVIER in January 2021 .
38. **Dr.T.S. Ravi Kiran**, HOD, Computer Science published a paper titled ‘Judgment Of Age By Utilizing Test Suites’ in an International Journal of Advanced Science and Technology in 2021 Vol. 29, No. 8, (2020), pp.3938-3944. ISSN: 2005-4238 IJAST.
39. **T.Srinivasa Ravi Kiran**, “An Interactive Clustered Base Recommender System for Effective Social Data Analysis”, IOP Conf. Series: Materials Science and Engineering 981(2020) 022011, ICRAEM 2020, Doi:10.1088/1757-899X/981/2/022011, October 2020, Impact Factor: 0.541, **Scopus Indexed**.
40. **T.Srinivasa Ravi Kiran**, A.Lakshmana Rao and A.Srisaila, “An Efficient Ad-Click Prediction System using Machine Learning Techniques”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020, **Scopus Indexed**.

DEPARTMENT OF COMMERCE & MANAGEMENT

2022

41. Dr MDS Rahaman Published an Article titled –Social Entrepreneurship –Changing Scenario in India in ICSSR Sponsored National Seminar and Published by Dept. of Commerce and Management, KBN College Organized with ISBN 978-81-947453-1-0. (February2022)

42. Dr J Durga Prasad Published an Article titled –Social Entrepreneurship –Changing Scenario in India in ICSSR Sponsored National Seminar and Published by Dept. of Commerce and Management, KBN College Organized with ISBN 978-81-947453-1-0. (February2022)
43. Dr.Rajesh C. Jampala, published a paper titled “A short note on strategies made by the Government of India” in SHANLAX International Journal of Management, Law and Social Sciences with E-ISSN 2581-9402, P-ISSN 2321-4643 Vol.IX, Issue 1, March 2022.
44. Dr. B. Jayaprakash published a paper titled “The Cost of Indian Judicial Delays” in International Journal of Humanities, Law and Social Sciences with ISSN 2348-8301, Vol.IX, Issue 1, March 2022.
45. Dr J L Rama Prasad, Asst. Professor, Department of Mathematics published a research paper entitled ‘Heat and Mass Transfer effects on linearly accelerated Isothermal Inclined plate’ in Frontiers in Heat and Mass Transfer, ISSN: 2151-8629, Vol. 18, Issue 11, March 2022. DOI: 10.5098/hmt.18.11 (Web of Science indexed).
46. Dr Rajesh C Jampala published an article titled “Dynamic of Work from Home: Impact on Employee Stress Level” published in ECS Trans. The Electrochemical Society, Vol.107, Issue. 1, page no. 6577-6586, April, 2022.
47. Dr J Durga Prasad Published an Article titled –Work Life Balance-an Implication to Better Life and Job Satisfaction in Journal of Management and Entrepreneurship with ISSN 2229-5348 UGC care group1 journal,Vol.16,No2(I),April-June2022.
48. Dr. SB. Rajendra Prasad published an article “A Study on Sharpening Skills for Work Life Balance for Career Aspirants” in the international journal “International Journal of Marketing and Human Resource management(IJMHRM)” of IAEME Publication with ISSN print 0976-6421 and ISSN Online: 0976-643X 30th June,2022 Issue page 27-33.
49. Mrs. A. Siva Naga Lakshmi published a paper titled “Job Depiction of Financial Analyst” published in ‘The Observer of Management Education’ with ISSN 2321-6353, Vol.17, Issue 6, June 2022.
50. Dr MDS Rahaman, Assistant Professor in Business Administration published an Article titled –Employee Perception Towards Impact of HRD Practices in Select Power Unit in Telanganain Academy of Marketing Studies Journal with ISSN 1528-2678-26-(S6)1-7 AUSTRALIAN BUSINESS DEANS COUNCIL (ABDC) Indexed B’ category Journal.(August 2022)
51. Dr J L Rama Prasad, Assistant Professor in Mathematics published a research paper entitled ‘Radiative Magneto Hydrodynamic Flow over a Vertical Cone filled with Convective Nano fluid’ in Communications in Mathematics and Applications, ISSN: 0975-8607, Vol.13, Issue 2, pp.449-459, September, 2022. DOI: 10.26713/cma.v13i2.1795 (Web of Science & Scopus indexed).

2021

52. **Dr. B. Jaya Prakash**, published an Article titled ‘Practices of Blue Ocean Strategy in Competitive Corporate World in Journal of Fundamental & Comparative Research, Vol. VII, NO.1, June 2021; ISSN 2277-7067, UGC Care Approved Peer Reviewed and Referred Journal.

53. **Dr. R. Srinivasa Rao**, published an Article titled ‘Employee Engagement: Issues and Concerns’ in Juni Khyat (UGC Care Group I Listed Journal) ISSN: 2278-4632 Vol-11 Issue-01 2021 – 21-04-2021.
54. **Dr. R. Srinivasa Rao**, published an Article titled ‘A Study on Employee Retention Strategies of Automobile Industries in India with Special Reference to Tata Motors, Andhra Pradesh’ in Juni Khyat (UGC Care Group I Listed Journal) ISSN: 2278-4632 Vol-11 Issue-01 2021 – 21-04-2021.
55. **Dr.Md.S. Rahaman**, published an Article titled - Factors Affecting Impulse Buying On Online Shop pining Among Youth : A Structural Equation Modeling Approach in Journal of Computer and Mathematics Education (‘TURCOMAT’) Vol. No.12 Issue No9., and pg.nos.2149-2157, e-ISSN 1309-4653 – 20-04-2021
56. **Dr.Md.S. Rahaman**, published an Article titled - Choices and Determinants of Capital Structure: An Empirical Study of Firms Listed in BSE(India), Journal of Computer and Mathematics Education (‘TURCOMAT’) Vol. No.12 Issue No.9 and pg.nos 2054-2060, e-ISSN 1309-4653 – 20-04-2021.
57. **Dr. J. Durga Prasad**, published an Article titled ‘Practices of Blue Ocean Strategy in Competitive Corporate World in Journal of Fundamental & Comparative Research, Vol. VII, NO.1, June 2021; ISSN 2277-7067, UGC Care Approved Peer Reviewed and Referred Journal.
58. **Dr. Md.S. Rahaman**, published an Article titled ‘Practices of Blue Ocean Strategy in Competitive Corporate World in Journal of Fundamental & Comparative Research, Vol. VII, NO.1, June 2021; ISSN 2277-7067, UGC Care Approved Peer Reviewed and Referred Journal.
59. **A. Siva Naga Lakshmi**, published a paper titled “Talent Management and Effective Workforce” in Kamaraj College, 482, Thoothukudi.

2020

60. **Dr. Rajesh C Jampala**, published an article “Business Opportunities and Challenges for Eco-Tourism in Global Scenario” published in “Our Heritage Journal, UGC Care Approved International Indexed and Referred Journal”, with ISSN 0474-9030, Volume 68, Issue 54 February 2020.
61. **Dr. B. Jaya Prakash**, published an article “Women Empowerment in MSME- Challenges and Opportunities” published in “Our Heritage Journal, UGC Care Approved International Indexed and Referred Journal”, with ISSN 0474-9030, Volume 68, and Issue 30 , 2020, Page No: 19154-19157..
62. **Dr. Md.S. Rahaman**, published an article “Women Empowerment in MSME- Challenges and Opportunities” published in “Our Heritage Journal, UGC Care Approved International Indexed and Referred Journal”, with ISSN 0474-9030, Volume 68, and Issue 30, 2020, Page No: 19154-19157..
63. **Dr. Md.S. Rahaman**, published an article “Quality of Work Life and Work Life Balance in Modern Corporate World” published in “Our Heritage Journal, UGC Care Approved International Indexed and Referred Journal”, with ISSN 0474-9030, Volume 68, Issue 54 February 2020.
64. **Dr. Rajesh C Jampala**, published research paper titled ‘A study on Issues & Challenges of Fintech Industries in Indian’ in an International Journal of Engineering Technology and Management Sciences in 2021. Issue: 3 Volume No.5,ISSN: 2581-4621 (UGC Care Group -1)
65. **Dr. Rajesh C Jampala**, published a research paper titled ‘Performance of Mutual Funds: A study of Large Cap Fund Growth of Selected Schemes’ in the Journal ‘Recent Developments and Advancement in Finance’ in 2021. ISBN:978-93—5457-696-6,pp. 199-207

66. **Dr. Rajesh C Jampala**, published research paper titled ‘A Study on Role of Stree Nidhi Credit Corporation in Economic Empowerment of Women in Krishna and Guntur Districts of Andhra Pradesh, India’ in an International Journal of Multidisciplinary Research and Technology in 2021. ISSN 2582-7359, Peer Reviewed Journal.

DEPARTMENT OF ENGLISH

2021

67. Dr. G Srilatha, published an article titled “Australian Aborigines and Eco-Spirituality” in a book “Eco-Aesthetics Transnational Perspectives,” Edited by Candy D’Cunha, Publisher: Academica Press, Washington, 2021,
68. Dr. K. Santha Kumari, published an article titled “Significance of Landscape in Doris Lessing’s ‘The Grass is Singing’ in a book “Eco-Aesthetics Transnational Perspectives,” Edited by Candy D’Cunha, Publisher: Academica Press, Washington, 2021.
69. Dr. G. Srilatha participated and presented a paper on “Dramatic techniques in Girish Karnad’s *Hayavadana*” organized by Freshman Engineering Department, PVP Siddhartha Institute of Technology on 29th April, 2021 and the paper was published in the conference proceedings.
70. Dr. K. Santha Kumari, participated and presented a paper on Doris **Lessing’s The Golden Notebook: A Feminist Bible** organized by Freshman Engineering Department, PVP Siddhartha Institute of Technology on 29th April, 2021 and the paper was published in the conference proceedings.
71. **Dr. Ch. Rajeswari**, Published a paper entitled "How Does Social Constructivism and Second Language Acquisition Work At The Graduate Level- (Multi Lingual and Multi-Cultural Atmosphere)" Journal Lang Lit, Special Issue, Oct-2021.

2020

72. Dr.G.Srilatha published an article on "Politics and Democracy in The Return of Gandhi" in a book titled "Subaltern Theatre: Critical Perspectives on Dr.D.Vizai Bhaskar's works", Edited by Dr.K.Santha Kumari, Immortal Publication, 2020,

DEPARTMENT OF ELECTRONICS

2021

73. Published a paper on “**Health Care Monitor through Internet**” in International Multidisciplinary Research Foundation (IMRF) organized by Sir C.R. Reddy Degree College, Eluru. <https://www.imrfedu.org/icpec2020>, Vol - 8 Issue 1 with ISSN 2320 – 4338

2020

74. Published a paper on “**An Analytical Review of Iot Based Machine Learning Techniques**” in International Journal of Advanced Science and Technology, Link: <http://sersc.org/journals/index.php/IJAST/issue/view/274>.

2022

75. Dr. MVVNL Sudha Rani, Lecturer, Dept of Mathematics published a research paper “Effect of Thermal Conductivity on Blasius Rayleigh Stokes flow and heat transfer over a moving plate by considering magnetic dipole movement” in European Physical Journal Plus, Vol.137, January 2022 (Web of Science and SCI).
76. Prof. V. Lakshmi Prasannam, Head, Department of Mathematics, Smt. T.Anuradha, Asst. Professor, Department of Mathematics published a research paper entitled “Characteristics of hyper ideals in Ternary semi hyper rings” in Communications in Mathematics and Applications, Vol. 13, Issue2, June 2022, ISSN:0976-5905. (Web of Science &Scopus indexed)
77. **Dr.J.L. Rama Prasad**, Assistant Professor in Mathematics and **Sri I.V. Venkateswara Rao**, Senior Assistant Professor and Incharge of UG Mathematics published a research paper entitled ‘Radiative Magneto Hydrodynamic Flow over a Vertical Cone filled with Convective Nanofluid’ in Communications in Mathematics and Applications, ISSN: 0975 – 8607, Vol.13, Issue 2, pp.4449 – 459, September, 2022. DOI: 10.26713/cma.v13i2.1795 (Web of Science & Scopus indexed)
78. **Dr.J.L. Rama Prasad**, Assistant Professor in Mathematics published a research paper entitled "Heat and Mass Transfer effects on linearly accelerated Isothermal Inclined plate" in Frontiers in Heat and Mass Transfer in 2022.

2021

79. Dr. V. Lakshmi Prasannam, HOD, Mathematics and Smt. T. Anuradha, Assistant Professor in Mathematics published a research paper entitled “Structure of Regular and Idempotent Ternary Semi hyper rings” in Turkish Journal of Physiotherapy and Rehabilitation.
80. Sri I.V. Venkateswara Rao, Incharge, Department of Mathematics (UG) published a research paper entitled “Prominence of Combinatorics and Graph Theory in the Advancement of Science and Technology” in International Journal of Scientific Research and Engineering Development.
81. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, published a research paper titled “Bipolar Anti Fuzzy d-ideals of d-Algebra” in the GIS Science Journal, Vol. 8, Issue 1, January 2021, 762-768.
82. **Sri I.V. Venkateswara Rao**, Sr.Assistant Professor in Mathematics published a research paper titled “Prominence of Combinatorics and Graph Theory in the Advancement of Science and Technology” in an International Journal of Scientific Research and Engineering Development in August 2021.
83. **Smt.T. Anuradha**, Assistant Professor in Mathematics published a research paper titled “Structure of Regular and Idempotent Ternary Semi Hyper Rings” in Turkish Journal of Physiotherapy and Rehabilitation in August 2021.
84. **Dr.J.L. Rama Prasad**, Assistant Professor in Mathematics published a research paper entitled “Heat transfer and entropy generation analysis in a horizontal channel filled with a permeable medium in the presence of aligned magnetic field and temperature gradient heat source” in an International Journal, SN Applied Sciences, Springer in March 2021.

85. **Dr.P. Seshu Babu**, Lecturer in Mathematics published a research paper titled “On third order slope rotatable designs using pairwise balanced designs” in Far East Journal of Theoretical statistics in October 2021.

2020

86. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, **published a research paper** entitled “Bipolar valued Fuzzy d-Algebra” in Advances in Mathematics, Scientific Journal 9, Vol. 9, August 2020, ISSN:6799-6808. (**Scopus indexed**)
87. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, **published a research paper** entitled “ Bipolar valued Fuzzy d-Ideals of d-algebra” in the Journal of Information and computational Science , Vol. 10, Issue 9, September 2020, 6799-6808. (**Scopus indexed**).
88. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, **published a research paper** entitled “ Defuzzification Index for Ranking of Fuzzy numbers on the Basis of Geometric Mean” in the International Journal of Intelligent Systems and Applications ,Vol. 4, October 2020, 13-24. (**Scopus indexed**)
89. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, **published a research paper** entitled “Normal Bipolar Fuzzy d-ideals of d-algebra” in Gedrag and Organisatie Review, Vol.33, Issue 4, October 2020.
90. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a patent** entitled “Under water pollution monitoring system to prevent fatalities of Aqua Eco system” along with a team of engineering faculty. Application No. 202041044264A, Patent Journal No. 42/2020, October 2020.
91. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** entitled “A Study of MHD Dissipative Fluid with Radiation Absorption and Chemical Reaction effects” in Journal of Xidian University, Vol 14, Issue 5, 2020 (**Scopus indexed**)
92. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** entitled “An incitement of Hall and Aligned MHD Casson flow” in the **Scopus indexed** International Journal “TEST Engineering and Management”, June 2020, ISSN: 0193-4120, PP:12035-12040. (**Scopus indexed**)
93. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** entitled “Aligned Magnetic field effect on unsteady MHD double diffusive free convection flow of Kuvshinski fluid past an inclined moving porous plate”, in Lecture Notes in Mechanical Engineering, July, 2020, Springer. (**Scopus indexed**)
94. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** entitled “Cosinusoidally Fluctuating Temperature and Chemical Reacting Effects On MHD Free Convective Fluid Flow Past a Vertical Porous Plate with Hall, Ion-Slip Current and Soret”, in Lecture Notes in Mechanical Engineering, July, 2020, Springer. (**Scopus indexed**)
95. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** entitled “Entropy generation and temperature gradient heat source effects on MHD couette flow with permeable base in the presence of viscous and joules dissipation, Frontiers in Heat and Mass Transfer, ISSN: 2151-8629, Vol. 15, Issue 8, September 2020. <http://dx.doi.org/10.5098/hmt.15.8> (**Web of Science & Scopus indexed**).
96. **Dr.J.L.Rama Prasad**, Asst. Professor, Department of Mathematics **published a research paper** titled ‘Heat transfer and entropy generation analysis in a horizontal channel filled with a permeable medium in the presence of aligned magnetic field and temperature gradient heat source, Research Article No. 377, SN Applied Sciences,

97. **Prof. V. Lakshmi Prasannam**, Head, Department of Mathematics, published a research paper titled “Bipolar Anti Fuzzy d-ideals of d-Algebra” in the GIS Science Journal, Vol. 8, Issue 1, January 2021, 762-768.

DEPARTMENT OF PHYSICS

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98. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Thermodynamic and transport properties of 2-methoxyaniline with substituted ethanols at various temperatures” *Int. J. Ambient Energy* 43(1) (2022) 425-434
99. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Computation of available volume and non-linearity parameter in liquid mixtures using thermoacoustic and thermodynamic parameters” *Int. J. Ambient Energy* 43(1) (2022) 1113-1119
100. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Dr.T.S. Krishna, Lecturer in Physics published a paper titled “ *Phy Chem Res.*, Vol. 10(3) September-2022, 379-390
101. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Study of Molecular Interactions of Fossil Fuels through Acoustic and Volumetric Data” Vol. 11(1) March – 2023, 129-137

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102. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “FTIR spectra of pure components and their binary liquid components (Binary mixtures of formamide with aniline, N-methyl aniline and N, N-dimethyl aniline)” *Int. J. Ambient Energy* <https://doi.org/10.1080/01430750.2021.1945683>
103. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Acoustic, volumetric and FTIR study of binary liquid mixtures of 2-methyl cyclohexanone with amides” *J. Chem. Thermodyn.*, 154 (2021) 106316
104. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Understanding of molecular interactions between ethyl acetate and 1-butyl-3-methyl-imidazolium bis (trifluoromethylsulfonyl) imide: A thermophysical study” *J. Chem. Thermodyn.*, 156 (2021) 106383
105. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Investigation of molecular interactions by volumetric, transport, spectral and DFT studies in some liquid binaries of N-methyl-2-pyrrolidone with N-alkyl anilines in the temperature range 303.15–318.15 K” *J. Mol Liq.*, 337(2021)116449
106. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Studies of solute - solvent interaction of ethyl acetate with 1-Butyl-3-methylimidazolium tetrafluoroborate at T = (298.15–323.15) K” *J. Mol Liq.*, 339 (2021) 117187
107. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Spectroscopic thermodynamic properties of binary liquid mixtures of non-polar and polar solvents (Tetra chloromethane, 2-chloroaniline, 2-methylaniline, and 2-methoxyaniline) at various temperatures” *J. Mol Liq.*, 342(2021)117550
108. **Dr T Srinivasa Reddy**, Lecturer in Physics published a paper titled “Temperature dependent properties of co-evaporated CuS thin films”. Brazilian journal of Physics, July 2021, ISSN:1039733

109. **Dr T Srinivasa Reddy**, Lecturer in Physics published a paper titled “Influence of Substrate Temperature on Structural and Optical Properties of Co-Evaporated $\text{Cu}_2\text{SnS}_3/\text{ITO}$ Thin Films”, Materials Science Forum, May 2021, ISSN:1662-9752
110. **S. Vijaya Krishna**, Lecturer in Physics published a paper titled “preparation and characterization of glass materials” International journal of research and in engineering and science (IJRES), July 2021, ISSN:2320-9364
111. **M. Tasneem**, Lecturer in Physics published a paper titled “An experimental analysis on IOR and its effects with respect to optical fiber media for long haul applications” International journal of innovative science and research technology” March, 2021, ISSN:2456-2165

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112. **Dr. T. S. Krishna**, Lecturer in Physics published a paper titled “Study of molecular interaction of Ethyl propionate with fossil fuels from 298.15 to 323.15 K temperatures” *Int. J. Ambient Energy* (10.1080/01430750.2020.1818121)
113. **Dr. T. S. Krishna**, Lecturer in Physics published a paper titled “Study of physicochemical binding interactions in renewable oxygenated fuel 1,4-butanediol with 2-EE/ 2-BE at different temperatures” *J. Chem. Thermodyn.*, Volume 140 January 2020) 105892
114. **Dr. T. S. Krishna**, Lecturer in Physics published a paper titled “Densities, Viscosities and Excess parameters of Octanol with Alkyl ($\text{C}_1\text{-C}_4$) acetates at varying temperatures” in *J. Mol Liq.*, Volume 299, February - 2020, 112221
115. **Dr.T.S. Krishna**, Lecturer in Physics published a paper titled “Effect of Temperature on molecular interaction of Ethyl acetate with Ionic Liquid 1-butyl-3-methylimidazolium hexafluorophosphate”, *J. Chem. Thermodyn.*, 141 February -2020, 105906

DEPARTMENT OF TELUGU

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116. **Dr.Y. Vijayananda Raju**, HOD, Telugu published an article “PEDDIBOYINA KAVITWAM – SAMAJIKA CHAITANYAM published a Special Magazine named as PEER REVIEWED JOURNAL in Page No.20, 21, 22. (ISSN NO.2348-7666) Volume – 8, ISSUE 6 (1) JUNE – 2021 (IMPACT FACTOR: 6.023)
117. **Dr.Y. Vijayananda Raju**, HOD, Telugu published an article “ PALA VENKATASUBBAIAH JEEVITAM – RACHANALU Published in UGC CARE JOURNAL BHAVAVEENA SEPTEMBER – 2021 (ISSN No.2456-4702) (Page No.14, 15, 16)
118. **R Jithendra Kumar**, Lecture in Telugu published an article “Poetry named as “ERUPEKKINA SURYULAI KADALAALI” in BHARATAMATA RAKSHANA MANA BADHYATA APRIL - 2021
119. **R Jithendra Kumar**, Lecture in Telugu published an article “PEDDIBOYINA KAVITWAM – SAMAJIKA CHAITANYAM” as INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH (PEER REVIEWED JOURNAL) in Page No.20, 21, 22. (ISSN NO.2348-7666) Volume – 8, ISSUE 6 (1) JUNE – 2021 (IMPACT FACTOR: 6.023)

120. **R Jithendra Kumar**, Lecture in Telugu published an article “ PALA VENKATASUBBAIAH JEEVITAM – RACHANALU Published in UGC CARE JOURNAL BHAVAVEENA SEPTEMBER – 2021 (ISSN No.2456-4702) (Page No.14, 15, 16)
121. **K. Anil Babu**, Lecture in Telugu published an article “ “DALITA MUSLIM MINORITY KAVITWAALU – SAAMAJIKA SAMASYALU” on 5th, October 2021 about AADHUNIKA TELUGU KAVITWAM – SAMAKALEENA SAMASYALU (ISSN NO.2456-4702, Volume No.8 Issue - 10) (Page No.110 - 114) (Published by UGC CARE JOURNAL BHAVAVEENA)

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122. **Dr.Y. Vijayananda Raju**, HOD, Telugu published an article “TOLI TARAM DALITA KAVULU” Published in UGC CARE JOURNAL BHAVAVEENA JANUARY, 2020 (ISSN No.2456-4702)
123. **Dr.Y. Vijayananda Raju**, HOD, Telugu published an article “JANAPADA VAIDYAM” Published in UGC CARE JOURNAL BHAVAVEENA MARCH, 2020 (ISSN No.2456-4702)
124. **Dr N. Siva Kumar** Lecture in Telugu published an article “NETI SAMAJANIKI AVASARAM MANAVATAVADA SAHITHYAM” (Page No.723, 724, 725) UGC CARE JOURNAL BHAVAVEENA– JULY, 2020 (ISSN No.2456-4702)
125. **Dr N. Siva Kumar** Lecture in Telugu published an article “NAA OORU DEERGA KAVITA – SAMAKALEENATHA” (Page No.372, 373, 374, 375, 376) UGC CARE JOURNAL BHAVAVEENA – AUGUST, 2020 (ISSN No.2456-4702)
126. **Dr N. Siva Kumar** Lecture in Telugu published an article “ MANAVATAVAADAM DOCTOR MADABHOOSHI KAVITHWAM” (Page No.364, 365, 366, 367, 368, 369) UGC CARE JOURNAL BHAVAVEENA – SEPTEMBER 2020

Department of Physical Education

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127. **Dr.N. Srinivasa Rao**, HOD, Physical Education published a paper titled ‘Effect of Yogasana and Pranayama on selected Cardio respiratory Parameters of Middle aged Men’ in International journal of Health, Physical Education & Computer Science in Sports ISSN 2231-3265 Publication impact FACTOR 120r 4.005 Isra Journal Impact Factor 6.997 V.41-1 Quarterly, January 2021 to March 2021.

DEPARTMENT OF ZOOLOGY

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128. **A. Samba Naik**, J. Sai Chandra, T. Samba siva Rao and Mahendra verma. Benthic assortment of Heaps from krishna river pondugula, A.P, Journal of Hunan university (Natural sciences), vol.48, No.9, September 2021.
129. **P. Brahmam and A.Samba Naik**. A molecular basis of rising in mucormycosis cases during COVID-19 Pandemic; analysis for host – pathogen interaction and risk factors. High technology letters, volume 27, issue 10,2021.

130. G. Anil kumar, Ajay N. Upadhyaya, A. Ravi kumar, **A. Samba Naik** and Meena Deshpande. Hand tracking and detection using python and Open CV, *Journal of Design Engineering*, ISSN 0011-9342, Issue 6, pages 4425 – 4431, 2021.
131. **A.Samba Naik**. Effect on Cocoon parameters and histological changes in the silkworm *Bombyx mori*. On exposure of aqueous plant extracts against tuckra disease, *Journal of Dogorangsang Research*, ISSN.2347 -7180, vol.8, issue.14 -2021.
132. S. Pulla Reddy, J.sai Chandra, Lizhar Ahmed and **A.samba Naik**, Development and validation of A new stability indicating RP-HPLC method for simultaneous determination of ofloxacin and cefixime in combined dosage forms, *Journal of the Maharaja Sayajirao University of Baroda*. ISSN -0025-0422, vol.56,N(1)2022.

Books / Chapters Published

1. Dr.T.N.V.S.S. Satya Dev, Assistant Professor in Chemistry authored a Chapter in the book on Faculty Development Programme. Title of the chapter: Effective Teaching. ISBN 978-620-0-53479-8. Publisher: LAP LAMBERT Academic Publishing in 2022.
2. **Dr.T.S. Ravi Kiran**, HOD, Computer Science and **Sri G. Samrat Krishna**, Assistant Professor in Computer Science published a book titled “Web Technologies-A Developer’s Perspective”. Publisher : Xpress Publishing, Notion Press in 2021.
3. **Dr.T.S. Ravi Kiran**, HOD, Computer Science and **Sri G. Samrat Krishna**, Assistant Professor in Computer Science published a book titled “Essentials of Database Management System, Volume-II”. Publisher : Xpress Publishing, Notion Press in 2021.
4. **Sri G. Samrat Krishna**, Assistant Professor in Computer Science published a book titled “Internet of Things - Architecture and Design Principles”. Publisher : Xpress Publishing, Notion Press in 2021.
5. **Ms.K. Priya**, Assistant Professor in Computer Science published a book titled “Theory of Computation”. Publisher: KAP Lambert Academic Publishing in 2021.
6. **Sri K. Narayana Rao**, Lecturer in Commerce published a book titled “Logistics and Supply Chain Management”. Publisher: Himalaya Publishing House in 2021.
7. **Dr.G. Srilatha**, Associate Professor in English authored a Chapter in the book “Eco-Aesthetics Transactional Perspectives” published by Academica Press in 2021.
8. **Dr.K. Santha Kumari**, Assistant Professor in English authored a Chapter in the book “Eco-literature: Contemporary Discourses” published by Academica Press in 2021.

Patents:

1. **Dr.J.L.Rama Prasad**, Asst. Professor in Mathematics **published a patent** entitled “Application of Ethyl acetate with 1-Butyl 3-methyl –imidazoliumbis (trifluoromethyl sulfonyl) imide in automobile industry to reduce the freezing point”, Patent Journal No.17/2021, P.No. 20536, Application No. 202141017340A, April 2021.
2. Dr.M.Manoranjani published a patent entitled “Nano particle formulation for diagnosis and / or treatment of cancer”, Patent App. No. 202141047416, 19/10/ 2021.
3. Dr.M.Manoranjani published a patent entitled “Three dimensional nanoparticulate drug delivery guidance system and method there of”, Patent No. 202141051870, 26/11/2021.
4. Dr.M.David Raju published a patent entitled “Future summer temperature average prediction from air temperature, rate, data”, patent No.2020104352, 03/03/2021.
5. Dr.T.N.V.S.S. Satya Dev published a patent entitled “Application of Ethyl acetate with 1-Butyl 3-methyl –imidazoliumbis (trifluoromethylsulfonyl) imide in automobile industry to reduce the freezing point”, Patent Journal No.17/2021, P.No. 20536, Application No. 202141017340A, April 2021.
6. Sri K. Sridhar and Smt. Y.J.N. Lakshmi, Assistant Professors in Computer Science obtained a patent titled “Virtual Shopping Facilitation Module associated with Robotic Cart and Augmented Reality (AR) Glasses”, Patent No.202141050215A, 19-11-2021.
7. Dr.M.David Raju published a patent entitled “Design and biological study on new Anti – inflammatory hybrid derivatives”, App. No.202241006304, 06/02/2022.
8. Dr.T.S.Ravi Kiran, HoD, Computer Science published a patent titled "Artificial Intelligence and IOT Based Smart House for Activity Recognition of Old Age People" on 22nd July 2022 with Application Number: 202241039407 A.