



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

L.B. Reddy Nagar, Mylavaram – 521230, Andhra Pradesh, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, With "A" Grade, NBA Tier-1 for ECE, EEE, CSE, IT, ME, ASE & CE

Recognised by Scientific and Industrial Research Organisation (SIRO)

**Research & Development Cell**

Date: 15-10-2025

### Details of R & D Accomplishments during the A.Y.: 2024-25

|      |                                                      |              |
|------|------------------------------------------------------|--------------|
| i.   | No. of SCI/ESCI papers                               | : 38/28      |
| ii.  | No. of Papers in Scopus indexed Journals             | : 83         |
| iii. | No. of Papers in Conf. Proceedings indexed by Scopus | : 171        |
|      | <b>Total Papers in SCI &amp; Scopus</b>              | <b>: 320</b> |
| iv.  | No. of Open Access/UGC etc Journals                  | : 93         |
| v.   | No. of Books/Chapters published                      | : 16/34      |
| vi.  | No. of Patents Granted/Published                     | : 01/39      |
| vii. | No. of Research Projects Sanctioned/Ongoing          | : 5/11       |

### R & D Publications for the A.Y.: 2024-25

(From 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2025)

| Details of Publications |              |            |           |           |            |            |                 |           |           |           |           |
|-------------------------|--------------|------------|-----------|-----------|------------|------------|-----------------|-----------|-----------|-----------|-----------|
| S.No.                   | Dept.        | SCI        | ESCI      | Scopus-J  | Scopus-C   | Total      | UGC/Open Access | Books     | Chapters  | Patent-P  | Patent-G  |
| 1.                      | AI&DS        | 02         | 02        | 07        | 22         | 33         | 07              | 06        | 00        | 03        | 00        |
| 2.                      | ASE          | 01         | 00        | 00        | 01         | 02         | 00              | 00        | 00        | 00        | 00        |
| 3.                      | CE           | 00         | 00        | 04        | 00         | 04         | 05              | 00        | 00        | 03        | 00        |
| 4.                      | CSE          | 08         | 01        | 22        | 49         | 80         | 18              | 04        | 07        | 07        | 00        |
| 5.                      | CSE(ML)      | 01         | 00        | 05        | 07         | 13         | 09              | 00        | 01        | 05        | 00        |
| 6.                      | ECE          | 05         | 09        | 13        | 22         | 49         | 15              | 00        | 16        | 04        | 00        |
| 7.                      | EEE          | 06         | 02        | 07        | 13         | 28         | 08              | 01        | 03        | 05        | 01        |
| 8.                      | IT           | 03         | 02        | 05        | 29         | 39         | 02              | 01        | 01        | 05        | 00        |
| 9.                      | ME           | 07         | 10        | 07        | 09         | 33         | 02              | 03        | 01        | 03        | 00        |
| 10                      | MBA          | 00         | 00        | 02        | 12         | 14         | 19              | 00        | 05        | 04        | 00        |
| 11                      | FED          | 05         | 02        | 11        | 07         | 25         | 08              | 01        | 00        | 00        | 00        |
|                         | <b>Total</b> | <b>38</b>  | <b>28</b> | <b>83</b> | <b>171</b> | <b>320</b> | <b>93</b>       | <b>16</b> | <b>34</b> | <b>39</b> | <b>01</b> |
| <b>Grand Total</b>      |              | <b>503</b> |           |           |            |            |                 |           |           |           |           |

## i. SCI/SCIE Papers

### SCI Papers:

AI&DS: 2 ASE: 1 CE: 0 CSE:8 CSE(ML): 1 ECE:5 EEE:6 IT: 3 ME:7 MBA:0 FED:5 Total: 38

### Aerospace Engineering (ASE): 01

1. **Inturi DM**, Pinnam L, Vegesna RR. Characterization of jets emanating from single expansion nozzles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2025;0(0).<https://doi.org/10.1177/09544100251331688>

### Artificial Intelligence and Data Science (AI&DS): 02

2. **V. Suryanarayana**, B. Prabhu Shankar, Rama Devi Burri, T. Priyanka, Ravi Kumar Saidala, A. Sasi Kumar, Piyush Chauhan, Jagdish Chandra Patni, "Effects of objects and image quality on melanoma classification using Spatio Temporal Joint graph Convolutional Network" Biomedical Signal Processing and Control, Volume 101,2025,107193, ISSN 1746-8094, <https://doi.org/10.1016/j.bspc.2024.107193>.
3. **Rajendra Babu Chikkala et al.**, "Enhancing Breast Cancer Diagnosis with Bidirectional Recurrent Neural Networks: A Novel Approach for Histopathological Image Multi-Classification," in IEEE Access, vol. 13, pp. 41682-41707, 2025,ISSN: 2169-3536 <https://ieeexplore.ieee.org/document/10891589>

### Computer Science Engineering (CSE): 08

4. Rajendra Kumar G, **D. Veeraiah**, J. Nageswara Rao, Venkata Nagaraju T, Ramaswamy M, A. Rajaram, "**Revolutionizing vascular health through the temporal convolutional transformer for drug screening and model evolution**", Biomedical Signal Processing and Control, Volume 95, September 2024, ISSN NO .17468094, 17468108, <https://doi.org/10.1016/j.bspc.2024.106390>,
5. Siri D, Gopikrishna Vellaturi, Shaik Hussain Shaik Ibrahim, Srikanth Molugu, **D.Venkata Subbaiah** Raviteja Kocherla, Ramesh Vatambeti, "**Enhanced deep learning models for automatic fish species identification in underwater imagery**", Heliyon, **(H index:88)**27-07-2024, ISSN NO. 24058440, <https://doi.org/10.1016/j.heliyon.2024.e35217>,
6. Pramodh Krishna D, E. Sandhya, Khaja Shareef Sk, Srihari Varma Mantena, **D. Venkata Subbaiah**, Ch Koteswara rao, Srinivasa Rao Vemula & Maruthi Vemula, "**Enhancing security and efficiency in Mobile Ad Hoc Networks using a hybrid deep learning model for**

**Q1 Journal**

**flooding attack detection**", in Scientific Reports, 15:818, 04-01-2025, ISSN: 20452322.  
<https://doi.org/10.1038/s41598-024-84421-0>

**Q1 Journal**

7. Bhansali A Sudheer D Tiwari, Shrikant, **D. Venkata Subbaiah**, Ahmad F, "**Prediction of Alzheimer's Disease Using Modified DNN with Optimal Feature Selection Based on Seagull Optimization**", Journal Of Imaging Informatics In Medicine(Springer)11-12-2024, ISSN: 2948-2925,<https://doi.org/10.1007/s10278-024-01262-z>

8. **B. Siva Rama Krishna**, Ch. N. Santhosh Kumar, B.V. Subba Rao, V. Rama Krishna, Rajendra Kumar G, and **J. Nageswara Rao**, "**Evaluating the Performance of Vascular Feature Extraction Boosting Algorithm for Peripheral Arterial Disease Detection**", International Journal of Pattern Recognition and Artificial Intelligence, Nov-24, ISSN (print):0218-0014|ISSN(online):1793-6381. <https://doi.org/10.1142/S021800142456010X>,

9. Udayaraju Pamula, Venkateswararao Pulipati, **G. Vijaya Suresh**, M. V. Jagannatha Reddy, Anil Kumar Bondala, Srihari Varma Mantena & Ramesh Vatambeti "**Optimizing diabetic retinopathy detection with electric fish algorithm and bilinear convolutional networks**" Scientific Reports. *Sci Rep* **15**, 14215 (2025).23 April 2025, ISSN/eISSN:2045-2322, <https://doi.org/10.1038/s41598-025-99228-w>.

**Q1 Journal**

10.**K. Devipriya** , Mehdi Tlija , Chanumolu Kiran Kumar ,V. Chandra Kumar ,Subrata Jana ,Chiranjibe Jana "**Automated micro-plastic detection and classification using deep convolution neural network pre-trained models and transfer learning**", "AIP Advances vol.15, Issue: 2, Date: 1/2/2025, E-ISSN: 2158-3226. <https://doi.org/10.1063/5.0243976>.

11. **S.Nagarjuna Reddy**, Chandra Sekhar Kolli,Mohan Kumar Chandol,R Ravi Kumar,Ravi Kumar Balleda, Masthan Siva Krishna Munaga, "**HHFHNet: Hybrid Deep Learning Network for Course Recommendation Using H-Matrix**", Transactions on Emerging Telecommunications Technologies, vol.36, Issue:6, Pg.No: 1-20, 20-03-2025, E-ISSN: 2161-3915.<https://doi.org/10.1002/ett.70090>,

### Computer Science Engineering (AI&ML): 01

12. S. Mande, N. Ramachandran, **S. Salma Asiya Begum** and F. Moreira, "Optimized Reinforcement Learning for Resource Allocation in Vehicular Ad Hoc Networks," in IEEE Access, vol. 12, pp. ISSN:2169-3536, 2024, doi: [10.1109/ACCESS.2024.3489395](https://doi.org/10.1109/ACCESS.2024.3489395)

## Electronics and Communication Engineering (ECE): 05

13. Anandbabu Gopatoti, James Stephen Meka, **Poornaiah Billa**, "Hybrid medical image encryption with compression framework for Internet of Medical Things" in **Computers and Electrical Engineering**, 126(2025) 110443, June 2025. ISSN: 1879-0755  
<https://doi.org/10.1016/j.compeleceng.2025.110443>

Q1 Journal

14. S.Vijayakumar, **Lachi Reddy Poreddy**, Mohammed Mahaboob Basha, Karnam Gopi, Srinivasulu Gundala and Javed Syed, "Design of Spurious Dynamic Inverter-Based Level Shifter with Error Tolerance for Robotic Arm Controller", **Micromachines**, November 2024, 15(12). SCIE Q2, ISSN: 2072-666X  
<https://doi.org/10.3390/mi15121431>

15. Srinivasa Rao Ghali, B. Prudhvi Nadh, **Prathipati Rakesh Kumar**, Moath Alathbath, B.T.P. Madhav, "Design and optimization analysis of Srichakra Shaped Conformal Antenna for off-body communication applications" in **Wireless Personal Communications**, December 2024, ISSN: 1572-834X, IF:1.9  
<https://doi.org/10.1007/s11277-024-11708-w>

16. D.Ram Sandeep, S.Salma, K.Sanjay Kumar, **P. Rakesh Kumar**, Satti Sudha Mohan Reddy, Kokku Aruna Kumari, Sanjay Bandi, B.T.P. Madhav, "Material Selection to Modeling: A Comprehensive Investigation of a Conformal Circularly polarized textile antenna for wearable applications, in IEEE Access, June 2025

17. S.K. Mastan Sharif, Rajasekhara Butta, Dhulipalla Venkata Rao, **G.L.N. Murthy**, "Improved LSTM-Squeeze Net Architecture for brain activity detection using EEG with improved feature Set" in **Biomedical Signal Processing and Control**, 101 (2025) 107222, November 2024, ISSN: 1746-8108.  
<https://doi.org/10.1016/j.bspc.2024.107222>

## Electrical and Electronics Engineering (EEE): 05

18. **K. Harinadha Reddy**, "Adaptive extreme learning machine using soft computing fuzzy propositions—Validating operating state of solar energy system", **Applied Soft Computing**, Volume 164, Issue C, 111966, October 2024, ISSN: 1568-4946  
<https://doi.org/10.1016/j.asoc.2024.111966>.

Q1 Journal

19. **Y.Raghuvamsi**, K.Teeparthi, Vinod Kumar D.M, Imran Abdul, P.Srihari, "Distribution system state estimation using physics-guided deep learning approach", **Electric Power Systems Research**, Volume 236, 110922, July, 2024, ISSN: 0378-7796,  
<https://doi.org/10.1016/j.epsr.2024.110922>,

20. **Y.Raghuvamsi**, Sreenadh Batchu, Kiran Teeparthi, Topology and FDIA Identification in Distribution System State Estimation using a Data-Driven Approach, Measurement, 253, Part D, PP.117741, May 2025, ISSN:0263-2241

<https://doi.org/10.1016/j.measurement.2025.117741>

**Q1 Journal**

21. **G. Tabita**, P. Umapathi Reddy, "Design of interline hybrid continuous trans-impedance turns ratio controlled tuning power filter: New approach to suppress harmonics in energy system," Electric Power Systems Research, Volume 238, 111107, October, 2024, ISSN 0378-7796, <https://doi.org/10.1016/j.epsr.2024.111107>.

22. **G. Tabita**, P. Umapathi Reddy "Interline hybrid continuous converter impedance control-based tuning filter: effective harmonic suppression in DG-integrated electrical power grid", Electrical Engineering, 107, pp. 5501-5510, Nov, 2024, ISSN: 0948-7921, <https://doi.org/10.1007/s00202-024-02815-9>,

23. Varaprasad Janamala, **P. Sobha Rani**, K. Radha Rani, K. Swarnasri, "Transformative impact of electrical engineering on society, education, academia, and industry: a brief review" Electrical Engineering, <https://doi.org/10.1007/s00202-025-03066-y>, April 2025,

### Information Technology (IT): 03

24. N. Velmurugan, R. Rajeswari, **Satuluri Naganjaneyulu**, A. Anupama, Rat swarm political optimizer based deep learning approach for lung lobe segmentation and lung cancer detection using CT images, Biomedical Signal Processing and Control, Volume Number:105, ISSN:1746-8094, 4 February 2025, <https://doi.org/10.1016/j.bspc.2025.107612>

25. Gupta, N., Malladi, R., **Naganjaneyulu, S.**, & Balhara, S. (2025). Optimized Attention Induced Multi Head Convolutional Neural Network for Intrusion Detection Systems in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems. pp:1-10, Print ISSN:1524-9050, Electronic ISSN:1558-0016, 8-May-25 DOI: [10.1109/TITS.2025.3561545](https://doi.org/10.1109/TITS.2025.3561545)

**Q1 Journal**

26. Hajarathaiah, K., Kolli, C. S., Tatireddy, S. R., Kumar, M. S., Radha, V. K. R., & Reddy, **V. V. K.** (2025). Cascade Kronecker neuro-fuzzy network based influential node identification. Applied Soft Computing, 175, 113015., PP:1-19. ISSN:1568-4946, 1-May-25, <https://doi.org/10.1016/j.asoc.2025.113015>

**Q1 Journal**

## Mechanical Engineering (ME): 07

27. **Dhanunjay Kumar Ammisetti**, Bharat Kumar Chigilipalli, Baburao Gaddala, Ravi Kumar Kottala, Radhamanohar Aepuru, T. Srinivasa Rao, Seepana Praveenkumar, and Ravinder Kumar, Experimental Investigation and Machine Learning Modeling of Tribological Characteristics of AZ31/B4C/GNPs Hybrid Composites, Crystals 14(12), 1007, Nov 2024, <https://doi.org/10.3390/cryst14121007>, ISSN: 2073-4352.

28. Harish Venu, Manzoore Elahi M Soudagar, Tiong Sieh Kiong, NM Razali, Hua-Rong Wei, Armin Rajabi, **V Dhana Raju**, TM Yunus Khan, Naif Almakayeel, Erdem Cuce, Huseyin Seker, Nanotechnology and LSTM machine learning algorithms in advanced fuel spray dynamics in CI engines with different bowl geometries, Scientific Reports, 15, 983, Jan 2025, <https://doi.org/10.1038/s41598-024-83211-y>, ISSN: 2045-2322,

Q1 Journal

29. Jayashri N Nair, **V. Dhana Raju**, T. Nagadurga Solar Ddryers for Food Preservation: An In-Depth Review of Design, Fabrication and Barriers, Food Engineering Reviews, Nov 2024, <https://doi.org/10.1007/s12393-024-09389-z>, 1866-7929, 1866-7910.

Q1 Journal

30. Jayashri N. Nair, T. Nagadurga, **V. Dhana Raju**, Harish Venu, Sameer Algburi, Sarfaraz Kamangar, Amir Ibrahim Ali Arabi, Abdul Razak, Narasimha Marakala, Impact of fuel additives on the performance, combustion and emission characteristics of diesel engine charged by waste plastic bio-diesel, Case Studies in Thermal Engineering, March 2025, ISSN: 2214-157X, <https://doi.org/10.1016/j.csite.2025.105755>,

Q1 Journal

31. C. Balakrishna Moorthy, **K. Dilip kumar**, R. Vijayakumar, P. Madhu, Enhancing thermal performance of solar air heater using graphene nano coatings: A comparative study with and without baffles, Thermal Science and Engineering Progress, Volume 60, April 2025, 103498, ISSN: 2451-9049, <https://doi.org/10.1016/j.tsep.2025.103498>,

Q1 Journal

32. T. Nagadurga, **V. Dhana Raju**, Abdulwasa Bakr Barnawi, Javed Khan Bhutto, Abdul Razak, Anteneh Wogasso Wodajo, Global MPPT optimization for partially shaded photovoltaic systems, March 2025, <https://doi.org/10.1038/s41598-025-89694-7>, ISSN: 2045-2322,

Q1 Journal

33. Harish Venu V, Dhana Raju, Jayashri N. Nair, Sameer Algburi, Ali E. Anqi, Ali A. Rajhi, Mohammed Kareemullah, Exergy and energy-based sustainability evaluation of diesel-biodiesel-ethanol blends with emission forecasting using advanced machine learning models, Case Studies in Thermal Engineering, 73, June 2025, 106516, ISSN: 2214-157X, <https://doi.org/10.1016/j.csite.2025.106516>,

Q1 Journal

## Freshmen Engineering Department (FED): 05

34. **K. Bhanu Lakshmi**, Kotha Gangadhar, M. Rupa Lavanya, Abderrahim Waif, “**Enhanced Thermal Transport in Magnetized Cu-Fe<sub>3</sub>O<sub>4</sub>/Water Hybrid Nanofluid on a Curved Surface with Improved Heat Absorption Coefficient**”, NANO, Vol., No., 25<sup>th</sup> September 2024, Article No. 2450140, ISSN/eISSN: 1793-2920/1793-7094 DOI: [DOI: 10.1142/S1793292024501406](https://doi.org/10.1142/S1793292024501406)

35. J.A. Bhaskar, K.N. Chidambara Kumar, V. Raju, T. Anjaneyulu, T. Suhasini, T. Narendrudu, **V. Parvathi**, Simhadri Naidu Juvvala, “**Enhanced pyroelectric property in lead-free 0.94Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-0.06Ba<sub>0.5</sub>Ca<sub>0.15</sub>Ti<sub>0.90</sub>Zr<sub>0.10</sub>O<sub>3</sub> solid solution for thermal energy harvesting**”, Ceramics International, Vol.51, No.2 , 6<sup>th</sup> January 2025, Pp. 2278-2284, ISSN/eISSN: 0272-8842/1873-3956, DOI: <https://doi.org/10.1016/j.ceramint.2024.11.205>

Q1 Journal

36. S. Venkata Krishna Sarma, Kotha Gangadhar, **K. Bhanu Lakshmi**, Saeed Dinarvand, “**Memory effects on MHD Williamson fluid over a stretched lubricated surface with microbes**”, Modern Physics Letters B, Vol., 39, No.24, 23<sup>rd</sup> January 2025, Article No. 2550113, ISSN 0217-9849 | E-ISSN 1793-6640, DOI: <https://doi.org/10.1142/S0217984925501131>

Q1 Journal

37. D. Jagadeeswara Rao K.Bhargavi, **Aruna Nayudu**, V.Nagalakshmi, Ramakrishna Madaka, Siriki Srinivasarao ,S.Yonatan Mulushoa, “**Effect of Nd<sup>3+</sup> and Ag<sup>+</sup> doped on synthesis, structural and magnetic properties of Sr<sub>1</sub>Nd<sub>x</sub>Ag<sub>y</sub>Fe<sub>12-y</sub>O<sub>19</sub> nano hexaferrite**”, Inorganic Chemistry Communications, Vol. 176, Article No. 114279, 10<sup>th</sup> March 2025, ISSN / eISSN: **1387-7003 / 1879-0259**, DOI: <https://doi.org/10.1016/j.inoche.2025.114279>

Q1 Journal

38. Abburi Sreenivas Rao, Charankumar Ganteda, M. Vara Lakshmi, I.B.N. Hima Bindu, **K.N.V. Lakshmi**, Gudala Balaji Prakash, Kamel Guedri, Wasim Jamshed, Syed M Hussain, Abdul Razak H Almaliki, “**The characteristics of thermal radiation and chemically boundary layer slip flow of a MHD Casson fluid over an exponentially elongating sheet**”, Journal of Radiation Research and Applied Sciences, Vol. 18, No. 2, Article No. 101504, 14<sup>th</sup> April 2025, ISSN: 1687-8507. (SCIE, Q2, Impact factor 1.7). DOI: <https://doi.org/10.1016/j.jrras.2025.101504>

## ESCI Papers:

AI&DS: 2 ASE: 0 CE: 0 CSE: 1 CSE(ML): 0 ECE: 9 EEE: 2 IT: 2 ME: 10 MBA: 0 FED: 2 Total: 28

### Artificial Intelligence and Data Science (AI&DS): 02

1. **Venkatesh Koreddi**, Shaik Chandini, B V T Kalyan Challa and M Sai Ram Teja “ Enhancing text summarization and audio generation using hybrid model” Engineering Research Express, Volume 7, Number 1, <https://iopscience.iop.org/article/10.1088/2631-8695/adae58/pdf>
2. **Venkatesh Koreddi**, Nalluri Manisha, Shaik Mohammad Kaif and Yeligeti Tejaswa Sai Kumar “Multilingual AI system for detecting offensive content across text, audio, and visual media” Engineering Research Express, Volume 7, Number 1, <https://iopscience.iop.org/article/10.1088/2631-8695/ada72a>

### Computer Science Engineering (CSE): 01

3. Saiprasad Potharaju ,Ravi Kumar Tirandasu, Swapnali N. Tambe,Devyani Bhamare Jadhav , **D.Anil Kumar**, Shanmuk Srinivas Amiripalli, “**A two-step machine learning approach for predictive maintenance and anomaly detection in environmental sensor systems**”, MethodsX, Volume 14, June 2025, 103181,pg.no: 1-11, 28-Jan-2025, E-ISSN: 22150161, <https://doi.org/10.1016/j.mex.2025.103181>,

### Electronics and Communication Engineering (ECE): 09

4. Raja Dhanavath, Satish Kumar Injeti, **Rambabu Busi**, “Grid-Edge optimization for maximizing the utilization of solarbattery and wind biomass systems in Large-Scale Networked Microgrids to minimize overall cost”, Journal of Active and Passive Electronic Devices, 18(4), ISSN:1555-029X, pp.257-281  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue->
5. Raja Dhanavath, Satish Kumar Injeti, **Busi Rambabu**, “Optimization of solar-wind-battery Energy Storage systems in a Large Scale Networked Microgrids for the minimization of overall grid cost using improved butterfly optimizer”, Journal of Active and Passive Electronic Devices, 18(3),ISSN:1555-029X, pp.195-216  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-3-2025/japed-18-3-p-195-216/>
6. K. Saujanya, **B.Poornaiah**, A. Kamala Kumari, Y. Srinivasa Rao, “The Effect of Strain Pulses on PVC-Graphite Nickel Thick Film Resistors”, Journal of Active and Passive Electronic Devices, 18(4), pp.317-325, April 2024, ISSN: 1555-029X  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-4-2025/japed-18-4-p-317-325/>
7. Mohammed Mahaboob Basha, Pendli Pradeep, **Srinivasul Gundala**, Javed Syed, “Design of Compact and high gain dual-band four-port MIMO antenna array for mm-wave 5G communications”, Results in Engineering, 2025, January 2025, 25,ISSN: 2590-1230  
<https://doi.org/10.1016/j.rineng.2025.104153>

8. B.Prudhvi Nadh, **Banothu YVNR Swamy**, Yarlagadda Ramakrishna, D Anveshini, Srinivasa Rao Kandula, Lokesh Raju V, Priyanka Das, BTP Madhav, "Design of Compact true wireless stereo (TWS) antenna in earphones for wearable communication applications", Engineering Research Express, 7(2025) 015322, January 2025  
<https://doi.org/10.1088/2631-8695/ada873>
9. **M. Venkata Sudhakar**, "High-Speed voltage level-up shifter with wide range conversion for system-on-chip applications", Engineering Research Express, November 2024, ISSN: 2631-8695, <https://iopscience.iop.org/article/10.1088/2631-8695/ad923c>
10. Mohammed Mahaboob Basha, **Srinivasulu Gundala**, V Madhurima and Arfat Ahmad Khan, "Design of energy-efficient full subtractor circuit at near threshold computing for signal processing application", Engineering Research Express, 6(4), October 2024. ISSN: 2631-8695  
<https://doi.org/10.1088/2631-8695/ad81ce>
11. **Rambabu Busi**, Satyanarayana Talam, Ch. Karthikeya Reddy, T. Ashok Reddy, R. Gowtham Arun Kumar R. Naveen, Ch. Jyothi ram and M. Harshada, "Design, Simulation and Optimization of MEMS-based Piezoresistive Biosensor with Stress Concentration Region for Biosensing Applications", The Journal of Active and Passive Electronic Devices (JAPED) USA, Vol.18. Issue. 1-2, P.P. 153-160, 2024. October 2024, ISSN: 1555-0281 (P) 1555-029X (O)  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-153-160/>
12. M. Mahaboob Basha, **Srinivasulu Gundala and Rambabu Busi**, "Minimization of Leakage Current Control in CMOS Adder Circuits Using Parametric Variations", The Journal of Active and Passive Electronic Devices (JAPED), Vol.18. Issue. 1-2, P.P. 105-118, 2024. October 2024, ISSN: 1555-0281 (P) 1555-029X (O)  
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-105-118/>

### Electrical and Electronics Engineering (EEE): 02

13. **Sobha Rani Penubarthi**, Radha Rani Korrapati, Varaprasad Janamala, Chaitanya Nimmagadda, Arigela Satya Veerendra and Srividya, "Chernobyl Disaster Optimizer-Based Optimal Integration of Hybrid Photovoltaic Systems and Network Reconfiguration for Reliable and Quality Power Supply to Nuclear Research Reactors", Modelling, Vol. 5, issue 3, pp:1268-1285, pp. 1268-1285, September, 2024, ISSN / eISSN: 2673-3951, <https://doi.org/10.3390/modelling5030065>,
14. **Srihari Parri**, Kiran Teeparthi, D. M. Vinod Kumar, "A novel hybrid framework based on decomposition and Y-former model for accurate wind speed forecasting", Modeling Earth Systems and Environment, Vol. 11, issue 217, April 2025, ISSN: 2363-6211, <https://doi.org/10.1007/s40808-025-02403-1>,

## Information Technology (IT): 02

15. Manas Ranjan Mohanty, Pradeep Kumar Mallick, **Annapareddy VN Reddy**, Optimizing pulmonary chest x-ray classification with stacked feature ensemble and swin transformer integration, Biomedical Physics & Engineering Express, Volume:11, Issue:01, **6-Nov-24**, ISSN: 2057-1976, , DOI 10.1088/2057-1976/ad8c46
16. Praveen, S. P., Jyothi, V. E., Anuradha, C., **Venu Gopal**, K., Shariff, V., & Sindhura, S. (2024). Chronic kidney disease prediction using ML-based Neuro-Fuzzy model. International Journal of Image and Graphics, 24(06), (1-Nov-24), 2340013. ISSN (print): 0219-4678 | ISSN (online): 1793-6756 <https://doi.org/10.1142/S0219467823400132>

## Mechanical Engineering (ME): 10

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ESCI

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71. **L. Bhagya Lakshmi**, P. Ramakoteswara Rao, Ch. Chandra Mohan, Lella Kranthi Kuar, Kusuma Sundara Kumar, Bandaru Venkata Shiva Kumar, **"Prediction of Physico-Chemical Characteristics of Groundwater Using Machine Learning Model"**, Volume Title: Proceedings of the International Conference on Computational Innovations and Emerging Trends (ICCIET- 2024), Series: Advances in Computer Science, 30<sup>th</sup> July 2024, ISSN: 2352-538X, ISBN: 978-94-6463-471-6. (Open Access) DOI: [10.2991/978-94-6463-471-6\\_60](https://doi.org/10.2991/978-94-6463-471-6_60)
  
72. G. Sreedevi, K. Venkat Rao, K. Bhargavi, **P. Vijaya Sirisha** and V. Jaya Lakshmi, **"Chemical Precipitation Synthesis of MoS<sub>2</sub> Nanoflowers and their Structural and Optical Properties"**, Proceedings of International conference on Emerging Multi functional materials and Devices for Sustainable Technologies, **EIMDST 2024**, 04-05 July 2024, NIT Warangal, Pp. 45-51, 3<sup>rd</sup> May 2025, ISBN: 978-981-96-5862-6.
  
73. Raviteja Surakasi, C.T. Muthiah, Alias Paul, B. Uma, J. Devaraj, **P. Sobhanachalam**, M. Rajendiran, A. Parthiban, **"Mechanical enhancement of epoxy hybrid composites via Sio<sub>2</sub> nanoparticles integration"**, AIP Conference Proceedings, **Innovations In Thermal, Manufacturing, Structural And Environmental Engineering: ICITMSEE-24**, 26-27, April 2024, Trichy, Vol. 3267, No. 1, Article No. 020306, 12<sup>th</sup> June 2025, ISSN: 1551-7616.  
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74. Bachina Harish Babu, Sarange Shreepad Marotrao, A. Shanmugam, **P. Sobhanachalam**, Vemu Vara Prasad, R. Priya, Raghuram Pradhan, S. Muthuvel, **"Enhancing mechanical properties of composite resin/hydroxyapatite nanocomposite for dental and orthopedic applications: Synthesis, characterization, and bioactivity assessment"**, AIP 30-06-2025 Annual R & D Report: **AY 2024-25** R&D Cell @ LBRCE Page 58 of 89

### **Master of Business Administration (MBA):19**

75. Raghavalu Ramella, Satyanarayana Ramella, **Adishesha Reddy Appidi, Naresh Ogirala, A Critical Evaluation of Working Capital Management Strategies and Profitability**, Journal of Information Systems Engineering and Management, Volume:10, Issue:3, Pp:50-59, March-2025, ISSN: 2468-4376, DOI: <https://doi.org/10.52783/jisem.v10i3.3588>
76. Naveen Chandra Kukkala, Radhakrishnan Arikrishna Perumal, **Yaramala Nagamani, Bhadrappa Haralayya, Sheeba Chithra S. Rajan, Shivani Sharma, Digital Leadership in the Era of AI: Transforming Workforce Productivity and Innovation**, Journal of Information Systems Engineering and Management, Volume:10, Issue:23, Pp:878-883, March-2025, ISSN: 2468-4376, DOI: <https://doi.org/10.52783/jisem.v10i23s.3787>
77. **Yaramala Nagamani**, M Suresh, Dr. Y Naga Kumari, **Stress Management: Strategies and Approaches for Enhancing Well-Being**, International Journal of Creative Research Thought, **Volume:12, Issue:7**, Pp: a895-a901, July-2024, ISSN: 2320-2882, DOI: <https://ijcrt.org/papers/IJCRT2407113.pdf>
78. **Yaramala Nagamani**, M Suresh, G. VishnuPriya, Tupili. Pravallika, **Revolutionizing Customer Engagement: The Unseen Potential of AI in Modern Marketing**, International Journal of Modern Engineering Research (IJMER), **Volume:14, Issue:5**, Pp: 99-103, Oct-2024, ISSN: 2249-6645, DOI: [https://www.ijmer.com/papers/Vol14\\_issue5/140599103.pdf](https://www.ijmer.com/papers/Vol14_issue5/140599103.pdf)
79. **Yaramala Nagamani**, M Suresh, Ch. Sairam, Devireddy Yohitha, Tupili. Pravallika, **A Comparative Study of Marketing Campaigns Aimed at Generation Z and Millennials**, International Journal of All Research Education and Scientific Methods (IJARESM), **Volume:12, Issue:11**, Pp: 106-110, Nov-2024, ISSN: 2455-6211, DOI: [https://www.ijaresm.com/uploaded\\_files/document\\_file/Mrs\\_Yaramala\\_NagamanistDX.pdf](https://www.ijaresm.com/uploaded_files/document_file/Mrs_Yaramala_NagamanistDX.pdf)
80. Dr. Papa Rao Maddala, **Dr. Naresh Ogirala**, Indla Novak, Thadi Nagini, **Evaluating the impact of AI and block-chain on credit risk mitigation: A predictive analytic approach using machine learning**, International Journal of Scientific Research in Engineering and Management (IJSREM), UGC-Peer Reviewed Journal, Volume:9, Issue:3, Pp:1-8, March-2025, ISSN: 2582-3930, DOI: <https://ijsrem.com/download/evaluating-the-impact-of-ai-and-blockchain-on-credit-risk-mitigation-a-predictive-analytic-approach-using-machine-learning/>
81. **Naresh Ogirala**, Suresh Marakala, Paparao Maddala, Renuka Chamarthi, Ranjith nayak Guguloth, **Fintech Disruption and Its Effect on the Profitability of Indian Banks: Public**

**vs. Private**, International Journal of Scientific Research in Engineering and Management (IJSREM), UGC-Peer Reviewed Journal, Volume:9, Issue:3, Pp:1-11, March-2025, ISSN: 2582-3930. DOI: <https://ijsrem.com/download/fintech-disruption-and-its-effect-on-the-profitability-of-indian-banks-public-vs-private/>

82. **Naresh Ogirala**, Kandula Nagalaxmi, Maddala Paparao, Devarakonda Acharao, Mundlapati Kishore Kumar, **AI-Powered Risk Assessment Models: Transforming Credit Scoring and Default Prediction**, International Journal of Scientific Research in Engineering and Management (IJSREM) UGC-Peer Reviewed Journal, Volume:9, Issue:3, Pp:1-7, March-2025, ISSN: 2582-3930. DOI: <https://ijsrem.com/download/ai-powered-risk-assessment-models-transforming-credit-scoring-and-default-prediction/>
83. **Undabatla Rambabu**, PSS Kalyan Darapaneni, Jannu Vinay, Prathipati Naga Durga Mahalakshmi Ramineni Vijaya Lakshmi, **Evaluating financial services in India: A risk-adjusted performance analysis using the Treynor ratio**, International Journal of Research in Management, Volume:7, Issue:1, Pp:825-830 April-2025, ISSN: 2664-8806, <https://doi.org/10.33545/26648792.2025.v7.i1i.352>
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86. **K. Ravi Kiran Yasaswi**, Ch. D. V. Sai Kumar, D. Bharath Lakshman, T. Jaswanth, A Study on Performance Appraisal, **International Journal of Scientific Research in Science, Engineering and Technology**, Volume:11, Issue:4, Pp:13-20 July-2024, ISSN: 2394-4099, DOI: <https://doi.org/10.32628/IJSRSET24114101>
87. **K. Ravi Kiran Yasaswi**, Ch. D. V. Sai Kumar, D. Bharath Lakshman, T. Jaswanth, Flexible Working Conditions, **International Journal of Scientific Research in Science, Engineering and Technology**, Volume:11, Issue:4, Pp:13-20 July-2024, ISSN: 2394-4099, DOI: <https://doi.org/10.32628/IJSRSET241141012>
88. **Yaramala Nagamani**, Nagubandi Sai Tharuni, Koganti Anusha, Buddavarapu Venkata Sai, Chitti Sai, Evaluating Job Satisfaction In The Telecommunication Sector: A Study On Telebu Communications, **International Journal of Creative Research Thoughts (IJCRT)**, Volume 13, Issue 2, February 2025, ISSN: 2320-2882, <http://www.ijcrt.org/papers/IJCRT2502482.pdf>

89. **A Adishesha Reddy, Naresh Ogirala**, M. Govardhan Reddy, PSS Kalyan Darapaneni, B Krishnaiah, **Bankruptcy Prediction Using Altman Z Score on Vizag Steel Plant**, in International Conference on Emerging Trends in Social Business, and Management Science Research (ICSBMR – 2025) from 13<sup>th</sup> to 14<sup>th</sup> March-2025 VIT-Chennai Tamilnadu.
90. **Naresh Ogirala**, Suresh Babu Nalliboyina, Swamy Prasad Talluri, M. Govardhan Reddy, Paparao Maddala, **Evaluation of Financial Risk Profile of Selected Cement Companies in India**, in International Conference on Emerging Trends in Social Business, and Management Science Research (ICSBMR – 2025) from 13<sup>th</sup> to 14<sup>th</sup> March-2025 VIT-Chennai Tamilnadu.
91. **Naresh Ogirala**, Swamy Prasad Talluri, Shaik. Subhani, Jannu Vinay, Assessing the Stability of the Indian Dairy Sector Using Altman's Model: An Overview, 9<sup>th</sup> International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024), Malla Reddy Engineering College for Women from 25<sup>th</sup> & 26<sup>th</sup> October-2024.
92. Swamy Prasad Talluri, **Naresh Ogirala, Adishesha Reddy Appidi**, Key Factors influencing The Indian SME Pharmaceutical Industry: Analyzing Using Porter Five Forces Framework for A Comparative Assessment, 9<sup>th</sup> International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024), Malla Reddy Engineering College for Women from 25<sup>th</sup> & 26<sup>th</sup> October-2024.
93. Mutyala. Kishore Babu, Papa Rao Maddala, **Naresh Ogirala**, Swamy Prasad Talluri, Empirical Evaluation of the Efficacy of Tariff-Saving Mutual Fund Schemes, 9<sup>th</sup> International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024), Malla Reddy Engineering College for Women from 25<sup>th</sup> & 26<sup>th</sup> October-2024.

## **v. Details of Books/Chapters for the Academic Year 2024-25**

AI & DS: 6, ASE: 0, CE: 0, CSE: 11, CSE(ML): 1, ECE: 16, EEE: 4, IT: 2, ME: 4, FED: 1, MBA: 5; Total: 50

Total Number of **Books**: 16

Total Number of **Chapters**: 34

| Sl.                                                               | Authors                                                                                          | Title of the Book/Chapter                                                                          | Publisher                              | Published Month & Year | ISBN                               |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|------------------------------------|
| <b>Department of AI &amp; DS: 06 (Books: 6 &amp; Chapters: 0)</b> |                                                                                                  |                                                                                                    |                                        |                        |                                    |
| 1.                                                                | <b>Dr. Divvela Srinivasa Rao</b>                                                                 | Machine Learning Mastery Algorithms and Applications                                               | IGI Global                             | 07/01/2025             | 978-93-6736-378-2<br><b>(Book)</b> |
| 2.                                                                | <b>Dr. Divvela Srinivasa Rao</b>                                                                 | Internet of Things(IOT) and Applications                                                           | IGI Global                             | 09/12/2024             | 978-93-6736-694-3<br><b>(Book)</b> |
| 3.                                                                | <b>Mr. SVVD. Jagadeesh</b>                                                                       | Strategic Algorithms and Data Structures                                                           | SMSAMS PUBLICATIONS                    | 30/05/2025             | 978-81-978852-4-2<br><b>(Book)</b> |
| 4.                                                                | <b>Mrs. M. Sabitha</b>                                                                           | Algorithm Techniques And Problem Solving Approach in Python Programming (Quick Interview Approach) | SMSAMS PUBLICATIONS                    | 30/05/2025             | 978-81-978852-0-4<br><b>(Book)</b> |
| 5.                                                                | <b>Dr. O Rama Devi</b>                                                                           | Design Thinking Essentials.                                                                        | SMSAMS PUBLICATIONS                    | 30/05/2025             | 978-81-978852-1-1<br><b>(Book)</b> |
| 6.                                                                | <b>Mrs V Sowjanya</b>                                                                            | Artificial intelligence in Drug Discovery and Development                                          | IMMORAL PUBLICATIONS                   | 28/06/2025             | 978-93-343-2260-6<br><b>(Book)</b> |
| <b>Department of CSE: 11 (Books:04 &amp; Chapters:07 )</b>        |                                                                                                  |                                                                                                    |                                        |                        |                                    |
| 7.                                                                | V. Priyanka<br>A. Praveena<br><b>Dr. D. Veeraiah</b><br>Mr. P. Pandiyarajan<br>V. Jasmine Sowmya | Blockchain Technology: Principles and Applications                                                 | IGI GLOBAL Publishing Next Gen Reserch | December 2024          | 978-93-6736-850-3<br><b>(Book)</b> |

| Sl. | Authors                                                                                                                                          | Title of the Book/Chapter                                                                                | Publisher                        | Published Month & Year | ISBN                               |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------|------------------------|------------------------------------|
| 8.  | Vikas B, Srinivasa Rao B, <b>Dr. S. Nagarjuna Reddy</b> , Dr.M.Tholkapiyan,, Dr. V. Elanangai                                                    | Concepts of Neural Networks and Deep Learning                                                            | Pandit Publications              | August-2024            | 978-93-93769-96-1<br><b>(Book)</b> |
| 9.  | Geetha Rani E., Bhuvaneshwari P., Ch Suguna Latha, Jaya Lakshmi D., Sethu Madhavi, D. Anusha, Dhanwand Krishna K. and <b>J. Nageswara Rao</b>    | Using RFID Technology, A Cutting-Edge System for Traffic Infringement Control and Punishment             | CRC Press                        | September-2024         | 9781032888903                      |
| 10. | Dasari Anusha, <b>B. Usha Rani</b> , P. Neela Sundari                                                                                            | Empowering Financial Inclusion: The Role of AI- In Hyper-Personalized Payment Systems                    | Rchub Publisher                  | November-2024          | 978-81-972363-8-9                  |
| 11. | Geetha Rani E., Bhuvaneshwari P, <b>O. Venkata Siva, J. Nageswara Rao</b> , Ch. Suguna Latha, D. Anusha, M. Dhana Lakshmi and Dhanwand Krishna K | Regression Algorithm for Decision Trees and Gradient Boosting Technique for Eye-Controlled Virtual Mouse | CRC PRESS                        | September-2024         | 9781032888903                      |
| 12. | Tejaswi. M, <b>D. Anil Kumar</b> , Venkata Srinivasu.V                                                                                           | "AI-Powered Demand Forecasting For Seasonal And High Variation Retail Products                           | Rchub Publishers                 | October-2024           | 978-81-972363-8-9                  |
| 13. | Puppala Naga Sravanthi, <b>M Kiran Kumar</b>                                                                                                     | Verifying Food Influencers on Blockchain for Transparency in Endorsements and                            | IGI Global Scientific Publishing | January-2025           | 9798369385425                      |

| Sl.                                                           | Authors                                                                                        | Title of the Book/Chapter                                                                       | Publisher                                                        | Published Month & Year | ISBN                                  |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------|---------------------------------------|
|                                                               |                                                                                                | Combating Fake Reviews                                                                          |                                                                  |                        |                                       |
| 14.                                                           | Dr.K.Suresh Kumar, Dr.M.Nagabhushana Rao, Dr.Ashish Sharama, <b>Dr.G.V.Suresh</b>              | The Art and Science of Data Driven Decision Making                                              | Iterative International Publishers                               | May-2024               | 978-93-6252-620-5<br><b>(Book)</b>    |
| 15.                                                           | Ch. Balakrishna, Dr.T. Veeranna, <b>N. Srikanth</b> , Dr. A Sasi kumar, Dr.R. Senthamil Selvan | Introduction to Artificial Intelligence And Machine Learning                                    | Charulatha Publications                                          | July-2024              | 979-93-6260-372-2<br><b>(Book)</b>    |
| 16.                                                           | Shaik Johny Basha, <b>A. Koteswara Rao</b> , Tamminina Ammannamma                              | Transforming Education with Predictive Analytics: A Data-Driven Approach to Student Achievement | IGI GLOBAL SCIENTIFIC PUBLISHING                                 | February, 2025         | 9798369382929                         |
| 17.                                                           | <b>B.Swathi</b> , S.Vijayalakshmi,P.Ja i Durga Lakshmi, B. Likesh                              | Navigating Mental Health: Emotion and Personality-Based Prediction System                       | Engineering Research Hub                                         | March 2025             | Vol. 03, Issue: 03<br>ISSN: 2584-2137 |
| <b>Department of CSE (ML):01 (Books:0 &amp; Chapters: 1 )</b> |                                                                                                |                                                                                                 |                                                                  |                        |                                       |
| 18.                                                           | <b>Dr Shaik Salma Asiya Begum</b>                                                              | GSAtt-CMNetV3: Potato Leaf Disease Classification Using Osprey Optimization                     | International Congress Of High Value Added Agricultural Products | December-2024          | 978-625-378-039-5                     |
| <b>Department of ECE: 16 (Books:0 &amp; Chapters:16 )</b>     |                                                                                                |                                                                                                 |                                                                  |                        |                                       |

| Sl. | Authors                                                                                        | Title of the Book/Chapter                                                                                                                                                                   | Publisher        | Published Month & Year | ISBN                                          |
|-----|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------|-----------------------------------------------|
| 19. | <b>Pavani Kollamudi</b>                                                                        | Technology Behind Junctionless Semiconductor Devices in Book Field Effect Transistors                                                                                                       | Wiley            | March 2025             | 9781394248506<br><b>Indexed in Scopus</b>     |
| 20. | <b>Ch.Siva Rama Krishna,</b><br>P.Livingston,<br>S.Jaya Chandra,<br>J.Hari Babu,<br>K.Sai Babu | Multi-band Self-Grounding Antenna for Wireless Technologies”, in Quantum Comp. Models for Cyber & Communications in Quantum Computing Models for Cybersecurity and Wireless Communications, | Wiley            | Feburary 2025          | 978-1-394-27140-5<br><b>Indexed in Scopus</b> |
| 21. | <b>Satyanarayana Talam,</b><br>Kamal Phaneendra Avula,Sameer Syed, Snigda Battula              | Fabrication Techniques for Microfluidics Devices                                                                                                                                            | Academic Press   | November 2024          | 9780443134548<br><b>Indexed in Scopus</b>     |
| 22. | <b>Venkat Rao Pasupuleti,</b><br>Shaik Ayeesha,<br>Gopi Venkata Sai, Penumaka Kadhana          | A Comprehensive Framework on Emotion-Aware Stress Detection Using IoT and Machine Learning                                                                                                  | IGI Global       | August 2024            | 9798369337394<br><b>Indexed in Scopus</b>     |
| 23. | <b>B. Rambabu,</b><br>B.Purnachandra Rao,<br>M. Vardhan Kumar,<br>I.Veera Reddy                | Design and Develop Autonomous Braking and Intelligent Collision Detection System By Using Arduino For Railways                                                                              | Taylor & Francis | March 2025             | 9781003559139                                 |

| Sl. | Authors                                                                                           | Title of the Book/Chapter                                                                 | Publisher        | Published Month & Year | ISBN          |
|-----|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------|------------------------|---------------|
| 24. | <b>Rambabu Busi,</b><br>B.Kalyan Venkat Sai<br>Ch.Anand,<br>G.Venkata Lakshmi                     | Remote Asthma Patient Health Monitoring System by Using IOT Technology                    | Taylor & Francis | March 2025             | 9781003559139 |
| 25. | <b>P. Rakesh Kumar,</b><br>Sk. Sameera Bhanu,<br>Ch.Aruna,<br>G.Yasaswini                         | Design and Analysis of Compact Multiband Millimeter Wave Patch Antenna                    | Taylor & Francis | March 2025             | 9781003559139 |
| 26. | <b>P.James Vijay,</b><br>Harshitha Narasapurapu,<br>Thoran Raj Dommeti,<br>Sultan Mohiddin Shaikh | Neuromedassist:An Intelligent Brain Tumor Classification System Using Deep Learning       | Taylor & Francis | March 2025             | 9781003559139 |
| 27. | <b>G.L.N.Murthy,</b><br>Alla Naga Neha Sri,<br>Mummuluri Sri Nanditha,<br>Gogireddy Manisha       | Epilepsy Detection Using Transfer Learning                                                | Taylor & Francis | March 2025             | 9781003559139 |
| 28. | <b>P. Rakesh Kumar,</b><br>P.Dhana Lakshmi,<br>E.Brahmendra,<br>R.Sharon Kumar                    | A Compact Basket Ball Court Shaped Reconfigurable Patch Antenna For Wireless Applications | Taylor & Francis | March 2025             | 9781003559139 |
| 29. | <b>M.Sivasankara Rao,</b><br>Patnala Soma Sumanth,<br>Kanasani Satvika,                           | Design of Low Power Sense Amplifier Using Cadence GPDK 45nm Technology                    | Taylor & Francis | March 2025             | 9781003559139 |

| Sl.                                                        | Authors                                                                                                                                                                       | Title of the Book/Chapter                                                            | Publisher                                  | Published Month & Year | ISBN              |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------|------------------------|-------------------|
|                                                            | Guguloth Vasanth Kumar                                                                                                                                                        |                                                                                      |                                            |                        |                   |
| 30.                                                        | <b>P.Venkat Rao,</b><br>Mounica Bulla,<br>Milcah Sunayana<br>Boyalapalli,<br>Charan Pendam                                                                                    | Enhanced Data Imputation Model for Missing Data Recovery in Wireless Sensor Networks | Taylor & Francis                           | March 2025             | 9781003559139     |
| 31.                                                        | <b>M.Sambasiva Reddy,</b><br>E Manohar Reddy,<br>S Kusuma Kumari,<br>P Raja SaiVarshith                                                                                       | Predicting Traffic Flow in Real Time Using Machine Learning                          | Taylor & Francis                           | March 2025             | 9781003559139     |
| 32.                                                        | <b>Ravi Kumar K,</b><br>P. Meghana,<br>V.Sesi Kala,<br>Ch.G.Sastry,<br>P.Reeva                                                                                                | IoT-Based Alert System for Alcohol Detection                                         | PVP & The Institution of Engineers (India) | November 2024          | 978-81-981949-7-8 |
| 33.                                                        | <b>Ravi Kumar K,</b><br>Chalavadi Meghana,<br>Madu Anusha,<br>Shaik Shakeela                                                                                                  | IOT based Automatic Tollgate Collection System                                       | PVP & The Institution of Engineers (India) | November 2024          | 978-81-981949-7-8 |
| 34.                                                        | <b>K. Ravi Kumar,</b> Guntaka<br>Sri Naga Durga,<br>Bodedla Gopi<br>Krishna, Eda Vinay<br>Venu Gopal,<br>Telagathoti<br>Harshitha, Konijetty<br>Nagajyothi,<br>Dubbaka Ganesh | Design and Analysis of Patch Antenna for Telemedicine                                | PVP & The Institution of Engineers (India) | November 2024          | 978-81-981949-7-8 |
| <b>Department of EEE: 04 (Books:01 &amp; Chapters:03 )</b> |                                                                                                                                                                               |                                                                                      |                                            |                        |                   |

| Sl.                                                        | Authors                                                                                                   | Title of the Book/Chapter                                                                           | Publisher                                 | Published Month & Year | ISBN                                                                                                                                                              |
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| 35.                                                        | Srikumar Kotni,<br><b>Nageswara Rao Gudipudi</b> ,<br>Ananda Kumar<br>Annabarapu,<br>Mosherani            | Review of Effects on the Power Grid from Plugging in Electric Vehicles and Renewable Energy Sources | Elsevier                                  | July 2024              | Pages: 11-25,<br>9780443289552<br><br>DOI:<br><a href="https://doi.org/10.1016/B978-0-443-28955-2.00002-0">https://doi.org/10.1016/B978-0-443-28955-2.00002-0</a> |
| 36.                                                        | Dr.Ch.Nagaraja Kumari<br>Dr.J.Varaprasad<br>Dr.K.Radha Rani<br><b>Dr.P.Sobha Rani</b><br>Dr.D.Suresh Babu | Electric Circuit Design                                                                             | Scientific International Publishing House | July 2024              | 978-93-6132-433-8<br><b>Book</b>                                                                                                                                  |
| 37.                                                        | Y.N. Vijaya Kumar, M. Manohara, N. Narasimhulu, D. Leela Rani, B.V. Sai Thrinath, <b>Parri Srihari</b>    | Optimizing DC-DC converter models for electric drive systems                                        | CRC Press, 2024, Taylor & Francis Group   | December 2024          | 9781003559092<br><b>Book Chapter</b>                                                                                                                              |
| 38.                                                        | B.V. Sai Thrinath & S. Farook, T. Penchalaiah, <b>J.V. Pavan Chand</b> , P. Venkatesh, Gujjala Murali     | Advanced Control Strategy For Grid-Connected DFIG Systems Using TSK-Fuzzy Controllers               | Taylor & Francis                          | July 2024              | 978-1-032-90173-2<br><br>DOI:<br>10.1201/9781003559092-47                                                                                                         |
| <b>Department of ME: 04 (Books: 03 &amp; Chapters: 01)</b> |                                                                                                           |                                                                                                     |                                           |                        |                                                                                                                                                                   |
| 39.                                                        | Dr.M.Srinivasa Rao,<br><b>Dr.Siva Sankara Babu Chinka</b> ,<br>M Sujana Kumar,<br>Banothu Devender        | Mechanics of Solids                                                                                 | RK Publications                           | December 2024          | 978-93-48655-68-4<br><b>(BOOK)</b>                                                                                                                                |
| 40.                                                        | Dr.S.Mathu Kumar, Dr.S.Iyyappan, Chandrasekara Raja, <b>Jonnala Subba Reddy</b>                           | Manufacturing & Material Science                                                                    | REST Publisher                            | February 2025          | 978-81-985519-8-6<br><b>(BOOK)</b>                                                                                                                                |
| 41.                                                        | Bharat Kumar Chigilipalli, Shirisha Bhadrakali                                                            | <b>Tribo-Behaviors of Biomaterials and their Applications/</b>                                      | CRC Press                                 | July 2024              | 9781003384847                                                                                                                                                     |

| Sl.                                                      | Authors                                                                                                             | Title of the Book/Chapter                                                               | Publisher                                                         | Published Month & Year | ISBN                            |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------|---------------------------------|
|                                                          | Ainapurapu, Borra N Dhanunjayarao, Arunakumari Mavuri, <b>Dhanunjay Kumar Ammisetti</b>                             | Metal-Based Additive-Manufactured Wear-Resistant Bioimplants                            |                                                                   |                        |                                 |
| 42.                                                      | Mr. S. Karthikeyan, Mr. V. T. Vijayaraj Dr. M. Manickam <b>Mr. Jonnala Subba Reddy</b>                              | Optimization Techniques in Manufacturing                                                | Lunar Publications                                                | April 2025             | 978-81-983636-5-7 <b>(BOOK)</b> |
| <b>Department of IT: 02 (Books: 1 &amp; Chapters: 1)</b> |                                                                                                                     |                                                                                         |                                                                   |                        |                                 |
| 43.                                                      | JMSV Ravi Kumar, A. V. Bharadwaja, M. Srikanth, <b>Phaneendra Kanakamedala,</b> Narni.Siva Chintaiiah, D Ratna Giri | Injection-Related Adverse Effects: A Wagner-Nelson Model Analysis                       | CRC PRESS                                                         | May-2025               | 9781003641537                   |
| 44.                                                      | Chandra Sekhar Kolli, <b>Vadisena Venkata Krishna Reddy,</b> A K S Rajeev Kumar Gottala                             | Intelligent Course Recommendation: A Hybrid Deep Learning Perspective                   | LAP Lambert Academic Publishing                                   | April - 2025           | 978-6208440961 (Book)           |
| <b>Department of FED: 1 (Books: 1)</b>                   |                                                                                                                     |                                                                                         |                                                                   |                        |                                 |
| 45.                                                      | Dr. G. Santhi, Dr. Bhaskar C, <b>Dr. Radha Rani Tammileti,</b> Dr. V. S. Bhagavan                                   | Numerical Technique and Integral Transforms                                             | Scientific Publishing House                                       | January 2025           | 978-93-6674-728-6               |
| <b>Department of MBA: 5 (Books: 0, Chapters: 5)</b>      |                                                                                                                     |                                                                                         |                                                                   |                        |                                 |
| 46.                                                      | <b>Dr.K. Deepika</b> Dr.O. Naresh, Mrs.Y.Nagamani                                                                   | Navigating Work-Life Balance: Challenges and Strategies for Women Faculty in Autonomous | Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering | December-2024          | 978-81-978696-4-8               |

| Sl. | Authors                                                                                    | Title of the Book/Chapter                                                                                                                   | Publisher                                                                                  | Published Month & Year | ISBN              |
|-----|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------|-------------------|
|     |                                                                                            | Engineering Colleges, Vijayawada                                                                                                            | & Technology (autonomous )                                                                 |                        |                   |
| 47. | Mutyala. Kishore Babu<br>Papa Rao Maddala<br><b>Naresh Ogirala</b><br>Swamy Prasad Talluri | Empirical Evaluation of the Efficacy of Tariff-Saving Mutual Fund Schemes                                                                   | 9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024) | March-2025             | 978-81-975624-9-5 |
| 48. | Swamy Prasad Talluri<br><b>Naresh Ogirala</b><br>Adishesha Reddy Appidi                    | Key Factors Influencing The Indian SME Pharmaceutical Industry: Analyzing Using Porter's Five Forces Framework For A Comparative Assessment | 9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024) | March-2025             | 978-81-975624-9-5 |
| 49. | <b>Naresh Ogirala</b><br>Swamy Prasad Talluri<br>Shaik. Subhani Jannu Vinay                | Assessing The Stability of the Indian Dairy Sector Using Altman's Model: An Overview                                                        | 9th International Conference on Emerging Strategies for Business Advancement-(ICESBA-2024) | March-2025             | 978-81-975624-9-5 |
| 50. | <b>Dr. Undabatla Rambabu,</b><br>Dr. Konda Lakshma Reddy                                   | Impact of Artificial Intelligence on Banking and Finance                                                                                    | The Interdisciplinary Impact of AI in Engineering & Management                             | April-2025             | 978-81-986300-4-9 |

| Sl. | Authors | Title of the Book/Chapter | Publisher | Published Month & Year | ISBN |
|-----|---------|---------------------------|-----------|------------------------|------|
|     |         |                           |           |                        |      |

## vi. Details of Patents for the Academic Year 2024-25

AI&DS: 3, ASE: 0, CE:3, CSE: 7, CSE(ML):5, ECE: 2, EEE: 6, ME: 3 IT: 5, FED:0, MBA: 4 Total: 38

| Sl.                                       | Patent Title                                                                                                                 | Applicants/<br>Inventors                                                                                                                                                                                                               | Patent No.    | Filed Date | Granted/Pu<br>blished Date |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------------|
| <b>Granted Category - 01</b>              |                                                                                                                              |                                                                                                                                                                                                                                        | <b>EEE-01</b> |            |                            |
| 1.                                        | Economic Aspect<br>Designing of<br>Prototype<br>Laboratory Multi<br>Phase Induction<br>Machine And<br>Validation             | Batchalakuri<br>Jyothi<br><b>Kadapa<br/>Harinadha<br/>Reddy</b>                                                                                                                                                                        | 546035        | 19/10/2020 | 26/07/2024                 |
| <b>Patents under Published Category -</b> |                                                                                                                              |                                                                                                                                                                                                                                        |               |            |                            |
| <b>AI &amp; DS-03</b>                     |                                                                                                                              |                                                                                                                                                                                                                                        |               |            |                            |
| 2.                                        | Machine Learning<br>Analytics for<br>Forecasting the<br>Course of Acute<br>Respiratory<br>Syndrome<br>Impairment             | Dr Arun Shalin<br>LV Dr.<br>Anilkumar P<br>Manju Bagga,<br><b>Dr. Divvela<br/>Srinivasa Rao,</b><br>M.Lakshmi<br>Narayana<br>Pappula<br>Madhavi<br>Ravichandra<br>Honnalli<br>Vijaylaxmi<br>CHOPPARAPU<br>SRINIVASA RAO,<br>Athappan V | 202441068991  | 04/10/2024 |                            |
| 3.                                        | IoT Devices to<br>Detect<br>Irregularities in<br>Monitoring Traffic<br>Patterns Using a<br>Deep<br><br>Learning Based<br>Ids | Niharika<br>N. Nagendra<br>S. Nanda Kishor<br>Ashok Ram. P<br>Rajesh kumar<br>Dr.S.M.Shamshee<br>r Daula<br><b>Pappula<br/>Madhavi</b><br>Kotteswaran<br>Rangasamy<br>S.Kranthi                                                        | 202441105058  | 17/01/2025 |                            |

| Sl.          | Patent Title                                                                                  | Applicants/<br>Inventors                                                                                                                                                                                              | Patent No.    | Filed Date | Granted/Pu<br>blished Date |
|--------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------------|
| 4.           | A System for Continuous Risk Assessment and Deceptive Credential Management In Cyber Security | <b>Sowjanya Vuddanti</b><br>Shiva Dutt<br>Jangampeta<br>Sai Krishna<br>Reddy Khambam                                                                                                                                  | 202441051674  | 12/07/2024 |                            |
| <b>CE-03</b> |                                                                                               |                                                                                                                                                                                                                       |               |            |                            |
| 5.           | Designing smart highways with integrated IoT for Traffic Management                           | P. Parameshwara Rao, Rahul Kumar, G. Raju, D. Viswanadh, <b>K. Harish Kumar</b> , L. Krishna, S. Suchismitha, J.K. Sandhya Kiran                                                                                      | 202541032675A | Apr 2025   |                            |
| 6.           | Development of Grey water Recycling Systems for High-Rise Buildings.                          | Dr M. Saravanan, Kruthiventhi Sai Karthikeya, B . Pooja Satale, <b>Dr V. Ramakrishna</b> , AsimGoswami, Dr.UtpalNath, Dr.A.RameshBabu, AshimaMohanty, NeeradiAbhilash, Mohammed Tabrez, PathlothBablu, . BolliAvinash | 202541043424  | May, 2025  |                            |
| 7.           | Self Cleaning Concrete for Pollution Reduction in Urban Areas                                 | Dr G.V. Sowjanya, P. Supriya, Dr UtpalNath, Y. Dasthagiri, AsimGoswami, <b>Dr V. RamanaKollipara</b> , S. Jagadeesan, Dr M.V.S.S. Sastry, K. Chitra                                                                   | 202541027009  | Apr 2025   |                            |

| Sl.           | Patent Title                                                                                                 | Applicants/<br>Inventors                                                                                                                                                                                                                                                                                    | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
|---------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|----------------------------|
| <b>CSE-07</b> |                                                                                                              |                                                                                                                                                                                                                                                                                                             |                |            |                            |
| 8.            | Improving EFL Speaking Accuracy with Machine Learning-Enhanced Self-Directed Learning in Higher Education    | <b>Duggineni Veeraiah</b><br>Dr A. A. Jayashree<br>Prabhakar<br>Dr Chhavi<br>Kulshreshtha<br>Dr V. Karunanithi<br>Bhupendra<br>Kumar Patel<br>Dr Twinkle<br>Dasari<br>Mr Poornesh M<br>R. Abeetha<br>Dr Govind<br>Prasad Goyal<br>Prof Naveen<br>Kumar Mehta<br>Prof. Dr. Dharmendra<br>Mehta<br>M. Saratha | 202541004266 A | 24/01/2025 |                            |
| 9.            | Autonomous Night Patrolling Robot For Crime Monitoring And Live Streaming System And Method Employed Thereof | <b>Dr B Sivarama krishna</b> , Mr. G. V. Suresh, B. Gracy, Dr. D. Veeraiah, Dr. K. Devi Priya, Dr. D. Venkata Subbaiah, S. Joshith Sai Ram                                                                                                                                                                  | 202441088188   | 14/11/2024 |                            |
| 10.           | AI-Powered Smart Drone System and Method for Precision Pesticide Spraying In Agriculture                     | <b>Dr B Sivarama krishna</b> ,                                                                                                                                                                                                                                                                              | 202541058538   | 27/06/2025 |                            |

| Sl. | Patent Title                                                                                   | Applicants/<br>Inventors                                                                                                                                                                                                   | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
|-----|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|----------------------------|
| 11. | IoT-Based Coal Mine Safety Monitoring and Alerting System                                      | Dr. Abhaya Kumar Pradhan,<br><b>Dr. G Vijaya Suresh</b> , Mr. Prakash Kamiseti, Dr. Samson Anosh Babu P, Mr. Ranjan Kumar Pradhan, Ms. Vishakha Gopal Jadhav, Mr. Suresh Kanaparthi, Mr. Balla Kalyan, Mrs. Kunduru Anusha | 202441050594 A | 05/07/2024 |                            |
| 12. | Machine Learning Analytics for Forecasting the Course of Acute Respiratory Syndrome Impairment | <b>Ch. Srinivasa Rao</b> , Dr . Arun Shalin. LV, Dr. Anilkumar, P, Manju Bagga,, M. Lakshmi Narayana, Ravichandra Honnalli,. Vijaylaxmi,. Athappan V                                                                       | 202441068991   | 9/12/2024  |                            |
| 13. | System And Method For Real-Time Driver Behavior And Safety Monitoring                          | Seelam Mohith Reddy , <b>Matta Swathi , Dr. D. Veeraiah, Dr. D. Venkata Subbaiah</b> , Jonnadula Manasa , Kandula Tejasai                                                                                                  | 202541034679   | 5/9/2025   |                            |

| Sl.                  | Patent Title                                                                                                 | Applicants/<br>Inventors                                                                                                                                                                                                              | Patent No.   | Filed Date | Granted/Pu<br>blished Date |
|----------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------------------|
| 14.                  | Cloud-Based Network Security Solution With Advanced Threat Intelligence Integration                          | Dr.C.S.Boopathi, Mr. <b>A. Koteswara Rao</b> , Mrs.Poonam Joshi, Dr.V.R.Seshagiri Rao, Mr.Surendar Rama Sitaraman, Mr.Ba thula Prasanna Kumar, Mrs.Srija Gundapaneni, Mr. Devadi Ganesh, Mr.Chan du Jayaram, Dr.Sivar am Rajeyyagari" | 202441061967 | 8/23/2024  |                            |
| <b>CSE (ML) - 05</b> |                                                                                                              |                                                                                                                                                                                                                                       |              |            |                            |
| 15.                  | System For Monitoring Potato Plant Diseases, And Method Thereof                                              | <b>Sk Salma Asiya Begum</b> , Hussain Syed                                                                                                                                                                                            | 202441049024 | 05-07-2024 |                            |
| 16.                  | Sytems and Methods artificial intelligence in health care and medicine: Diagnosis, Monitoring and treatment. | B rajani, Sk Pujitha, Akurathi Lakshmipathi rao, Arvinda.D, <b>Paidipogu Sowjanya</b>                                                                                                                                                 | 202541005656 | 31-01-2025 |                            |
| 17.                  | Automatic detection and classification of plant diseases using Deep learning techniques                      | Dr sanju Tamang, Bandi Ranjitha, Dr N Satyavedam, I Madhavalatha, <b>Kancherla Rajasree</b>                                                                                                                                           | 202411100181 | 21-02-2025 |                            |
| 18.                  | Helios Thermal Power Station: System andf Method for Enhanced Solar Thermal Enery Conversion and Storage     | Mr. Borra Ujwal, Mr. Anil Kumar, <b>Dr. Rajendra Prasad Banavathu</b> , Mr. Chalamolu Sree Sharan                                                                                                                                     | 202441069927 | 20-09-2024 |                            |

| Sl.           | Patent Title                                                                             | Applicants/<br>Inventors                                                                                                                                                                                                                                 | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
|---------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|----------------------------|
| 19.           | Transforming Low-Resource Language Processing With Few-Shot Machine Learning Techniques. | Dr. Pandi.<br>Chiranjeevi,<br>B.Venkataraman<br>a, Nagaraju<br>Dasari,<br><b>Jagadeeswara<br/>Rao</b> , B. Shivani,                                                                                                                                      | 202441062347   | 23/08/2024 |                            |
| <b>ECE-04</b> |                                                                                          |                                                                                                                                                                                                                                                          |                |            |                            |
| 20.           | Eco-Smart Solar Drying with Adaptive Climate Sensing and Power Flexibility               | U Srinivasa Rao<br>K Kalpana<br>Thota Sri<br>Lakshmi<br>Shaik Shafiya<br>Sultana<br>Kadiyala<br>Sudhakar<br>P Surendra<br>Kumar<br>N Naga Swathi<br><b>Kola Balavani</b><br>Kommalapati<br>Rajesh<br>Rajulapati<br>Pushpa Sree<br>Pitta Sneha<br>Likhita | 202541035299 A | 09-05-2025 |                            |
| 21.           | Method and System for Improving IOT Antenna Performance using Statistical Mechanics      | 1.Mr.Simhachala<br>m Boddana<br>2.Dr.B.Kantham<br>ma<br>3.Mr.Suggala<br>Ram Prasad<br><b>4.Tella Anil<br/>Raju</b><br><b><u>Applicant</u></b><br>GITAM Deemed<br>to be university                                                                        | 202441064655 A | 13-09-2024 |                            |

| Sl.            | Patent Title                                                                        | Applicants/<br>Inventors                                                                                                                                                                                                                                                             | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|----------------------------|
| 22.            | YOLOv8 powered smart Gate Opener using Raspberry Pi Pico and Easy OCR               | Tatikonda<br>Krishna<br>Chaitnya,<br>N.Naga Swathi,<br>K. Kalpana,<br><b>Kola Balavani</b> ,<br>Boppana<br>Snehitha,<br>Barri Lakshmi<br>Lavanya<br>Gedela Sujatha<br>Shaik Rahman<br><b><u>Applicant</u></b>                                                                        | 202541042978 A | 30-05-2025 |                            |
| 23.            | Advanced Ear Biometrics Authentication using EfficientNET CNN for enhanced Security | Niraj Nagrale<br>Mohit Raikwar<br>Dr.Pushpendra<br>Anuragi<br>Dr.Nikhath Raza<br>Khan<br>Dr.Sayyad Jilani<br><b>Dr.B.V.N.R. Siva Kumar</b><br>Sanjay<br>Mirchandani<br>Dr.Sricheta Parui                                                                                             | 202421069667 A | 25-10-2024 |                            |
| <b>EEE -05</b> |                                                                                     |                                                                                                                                                                                                                                                                                      |                |            |                            |
| 24.            | Design And Fabrication of Hybrid Dryer                                              | Dr. Timmidi<br>Naagadurga<br>Malla Reddy<br>Engineering<br>College<br>Dr. Jayashri N<br>Nair<br><b>Dr.G.<br/>Nageswara Rao</b><br>Dr.K. Sai Sarath<br>Dr. Lanka<br>Ramesh<br>Dr. KaturuBala<br>Prasad<br>Dr.B. Sreenivasa<br>Raju<br>Dr. Gopidesi<br>Radha Krishna<br>Dr.P.Rajeswari | 202441048345   | 24/06/2024 | 05/07/2024                 |

| Sl. | Patent Title                                                                                                                              | Applicants/<br>Inventors                                                                                                                                                                                                                                                                    | Patent No.   | Filed Date | Granted/Pu<br>blished Date |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------------------|
| 25. | IOT-Based Intelligent Energy Management for Hybrid Electric Vehicles using Machine Learning Algorithms                                    | Saranya N<br>S.Lalli<br>Dr. Jitesh Pati<br>Tripathi<br>Dr.Manasi<br>Vyankatesh<br>Ghamande<br>Dr. Vijay Kumar<br>Tiwari<br>Dr. Rajanish<br>Kumar Shukla<br><b>Dr. K. Ramalingeswar<br/>a Prasad</b><br>Joshua Daniel S<br>Dr.S.Subhalaksh<br>mi<br>Dr.Kusuma<br>Rajasekhar<br>Ms.Sunantha D | 202441058815 | 02/08/2024 | 09/08/2024                 |
| 26. | Three-Phase Bidirectional Meter Interconnected To The Grid With Monitoring Of Electrical Energy Generation From A Panel-Microinverter Set | Dr.T.Arun<br>Srinivas<br>Dr. N M G Kumar<br><b>Mr.Parri Srihari</b><br>Dr. C. S. Sundar<br>Ganesh<br>Mr. Kiran M R<br>Dr.T. Babu                                                                                                                                                            | 202441050903 | 03/07/2024 | 12/07/2024                 |
| 27. | High Frequency Gan-Based Dynamic Wireless power transfer system for Electric Vehicles                                                     | Mr. B.V.Sai<br>Thrinath<br>Dr.B. Meghya<br>Nayak<br>Mr. G.Naveen<br><b>Mr J.V.Pavan<br/>Chand</b><br>Dr.M.Ramprasad<br>Reddy<br>Mr B.V. Bhargavi<br>Dr. S.Farook<br>Mr M.Venkatesh<br>Mr S. Usman<br>Basha<br>Mr S.Srikanth<br>Naik                                                         | 202541045339 | 10/05/2025 | 30/05/2025                 |

| Sl.          | Patent Title                                                                                                | Applicants/<br>Inventors                                                                                                                                                                                                                                                          | Patent No.   | Filed Date | Granted/Pu<br>blished Date |
|--------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------------------|
| 28.          | Intelligent Energy Management System for Smart Grids with Demand Response and Energy Storage Integration    | <b>Dr. Penubarthi Sobha Rani</b>                                                                                                                                                                                                                                                  | 202441093097 | 28/11/2024 | 06/12/2024                 |
| <b>IT-05</b> |                                                                                                             |                                                                                                                                                                                                                                                                                   |              |            |                            |
| 29.          | Drug Classification Using Machine Learning Techniques                                                       | Pradeep Kumr Mallick,<br><b>Phaneendra Kanakamedala</b> ,<br>Venu Madhav Sunkara, Gurram Rajendra, Rajasekhar Kommaraju, Saddi Jyothi, Annapareddy V N Reddy                                                                                                                      | 202431095862 | 5/12/2024  | 20/12/2024                 |
| 30.          | Water Wave Optimization Algorithm based Deep Learning Model for Detection and Classification of Skin Cancer | S.Balamurugan<br>Dr.T.Sree Kala<br>C .T. Ashita<br><b>Dr. B. Srinivasa Rao</b><br>Reeba Rose L<br>Narasimhula L.<br>V. Venugopal<br>Dr Veera Aruna<br>Chittibomma<br>Dr SVB<br>Subrahmanyesw<br>ara Rao<br>Dr.Ramasamy V<br>Dr. Suma M.R<br>Dr.Pavithra.G<br>Dr.T.C.Manjunat<br>h | 202441059832 | 08.08.2024 | 16.08.2024                 |

| Sl.            | Patent Title                                                                                                  | Applicants/<br>Inventors                                                                                                                                                                                                         | Patent No.   | Filed Date | Granted/Pu<br>blished Date |
|----------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------------------|
| 31.            | AI-Based Fraud Detection System For Secure Online Transactions                                                | Dr. Rakesh Verma,Dr. Aravinda T V,Dr. Chandra Sekhar Kolli,Dr. Krishnareddy K R,Dr. Prasanta Kumar Parida,Mr. V. Srinath,Mr. <b>Venkata Krishna Reddy Vadisena</b>                                                               | 202511006254 | 25/01/2025 | 28/02/2025                 |
| 32.            | A Comprehensive Self-Automated Optimization System Of Pond Aquaculture Management And Method Employed Thereof | <b>Dr. K.Venu Gopal</b> ,Prathyusha Oleti,Dr. Satyanarayana Talam,Dr.A.Narendra Babu,Siva Vara Prasad Chinthalapudi                                                                                                              | 202441088343 | 15/11/2024 | 13/12/2024                 |
| 33.            | Machine Learning Analysis of The Impact of Technostress on Student Learning And Academic Performance          | Dr. R Venkat <b>Dr Dasari Ratna Kishore</b> Dr. Devara Pavan Nagendra Prof. Gauri Gaurav Kulkarni Sharmila EMN N.Mohananthini Thiyagarajan T Dr Ram Kumar Garg Dr.Dhanusha.C Mrs.S.Kayathri, Dr. M. Shabeena Begam Dr. G. Aparna | 202441057139 | 27/07/2024 | 02/08/2024                 |
| <b>MECH-03</b> |                                                                                                               |                                                                                                                                                                                                                                  |              |            |                            |

| Sl. | Patent Title                                                                       | Applicants/<br>Inventors                                                                                                                                                                                                                                                                      | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
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| 34. | Design and<br>Fabrication of<br>Indoor Air Purifier                                | <b>Mr. Sankarrao<br/>Vinjavarapu,</b><br>Dr. Murahar<br>Kolli,<br>Dr. Siva Sankara<br>Babu Chinka,<br>Dr. Seelam Pichi<br>Reddy, Dr.<br>Kondapalli Siva<br>Prasad,<br>Mr. Jaya Raju<br>Gandepudi,<br>Jitendra<br>Gummadi                                                                      | 202441065368 A | 29.08.2024 | 06.09.2024                 |
| 35. | Solar Radiation<br>Based<br>Commodities<br>Drying<br>Device                        | Dr.Jayashri N<br>Nair Dr.Sachin<br>Lotan Borse<br>Dr.Abhilah<br>Suryan R<br>Dr.Charushila<br>Axay Patel<br><b>Dr.V.Dhanaraju</b><br>Vishv Axay Patel<br>Hemantkumar<br>Jayantibhai Patel<br>Hirenkumar<br>Jaynathi Patel<br>Hirenkumar<br>Rashmikant<br>Patel Urvsiben<br>Hirenkumar<br>Parel | 202541001885 A | 08.01.2025 | 24.01.2025                 |
| 36. | Method for<br>Welding of EN8<br>and EN31 Plates<br>by Using Pulsed<br>Current GTAW | Dr. D.S.Ch.Mouli<br>Dr.Md.Ahasan<br>Dr.Vara Prasad<br>Bhemuni<br><b>Dr. Murahari<br/>Kolli</b><br>Dr.Aruri<br>Devaraju<br>Mr.BURADAGUN<br>TA EMMANUEL                                                                                                                                         | 202541045281 A | 10.05.2025 | 30.05.2025                 |

**MBA-4**

| Sl. | Patent Title                                                                                                                 | Applicants/<br>Inventors                                                                                                                                                                                                                                                                                      | Patent No.     | Filed Date | Granted/Pu<br>blished Date |
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| 37. | Design a Study and Analysis of Hospitality and Tourism Management Research Using The Artificial Intelligence Based Analytics | Prof. Shafqat Alauddin<br>Dr. Amol Pandurang Godge<br><b>Dr. D. Venkateswarlu</b><br>Dr. D. Revathi Natarajan P<br>Dr. D. Anitha<br>Dr. Rajendrasing Kisansing Pardeshi<br>A Sadeesh Kumar<br>Dabi<br>Bhagyashree<br>Prof. Dr. Dharmendra Mehta<br>Prof. Dr. Naveen K Mehta<br>Dr. Abhishek Rajeshkumar Mehta | 202411069341   | 04-10-2024 |                            |
| 38. | Integrating Machine Learning and Psychology for Consumer Purchase Behaviour On E-Commerce Platforms                          | Subhashree P<br>Dr. Amrita Baid More<br><b>Dr K. Deepika</b><br>Dr RVS Praveen<br>Deepak Sundrani<br>Dr S. Venkata Ramana<br>Julakanti<br>Sivananda Reddy<br>Maria Sahaya<br>Diran D<br>Leuva Khushbu<br>Hasmukhbhai<br>T.S.Venkateswar<br>an<br>Dr T<br>Ravichandran<br>Dr A. Sasi Kumar                     | 202441095121 A | 13-12-2024 |                            |

| Sl.                                               | Patent Title                                                                                                              | Applicants/<br>Inventors                                                                                                                                                                                                                                                                       | Patent No.         | Filed Date | Granted/Pu<br>blished Date |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|----------------------------|
| 39.                                               | Transforming Hr-<br>Practices:<br>Integrating<br>Employee<br>Engagement and<br>Analytics for<br>Organizational<br>Success | Dr. Pankaj<br>Adatiya Tiwari<br>Dr. Sphurti<br>Birajdar<br>Mrs. <b>Yaramala<br/>Nagamani</b><br>Dr. H S Abzal<br>Basha<br>Ms. Joyce Daniel<br>Dr. T. Ravindra<br>Reddy<br>Dr. Chikati Srinu<br>Prof. Dr.<br>Venugopal<br>Janaswamy<br>Dr. S Govardhan<br>Mr. Sreenivas<br>Matla<br>Dr. R. Arun | 202441058144       | 09-08-2024 |                            |
| 40.                                               | Blockchain-<br>Integrated AI<br>System for Fraud<br>Detection in<br>Financial and E-<br>Commerce<br>Transactions          | M Sowjanya<br><b>Kotamraju.Ravi<br/>Kiran Ysaswi</b><br>RVS Praveen<br>Yeshwanth Vasa<br>M Senthil Kumar<br>Dr. Amit<br>Chauhan<br>Dr. Yashswini<br>Varde<br>Disha Rahal<br>Dr G<br>Sivagurunathan<br>Dr Vivek<br>Bhatnagar<br>Dr Hirdesh<br>Shrivastava<br>Vishnupriya K                      | 202541041337       | 23-05-2025 |                            |
| <b>Patents Granted under Design Category - 13</b> |                                                                                                                           |                                                                                                                                                                                                                                                                                                |                    |            |                            |
| 41.                                               | Pedagogy Device<br>For Online<br>Teaching Learning                                                                        | <b>Dr. Divvela<br/>Srinivasa Rao</b>                                                                                                                                                                                                                                                           | 6445537<br>(AI&DS) | 28/05/2025 |                            |

| Sl. | Patent Title                                                        | Applicants/<br>Inventors                                                                                                                                        | Patent No.                | Filed Date | Granted/Pu<br>blished Date |
|-----|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------|----------------------------|
| 42. | IOT Based Foldable Digital Right Angle Scale for Construction       | Kalpna R. Thakare, Anjan Kumar Dutta, SandeepanSaha, Dr. N. Pannirselvam, Dr.Srinivasa C H, R. Premkumar, Dr. S. Vanitha, <b>K. Harish Kumar</b>                | 425770001<br><b>(CE)</b>  | Sept 2024  |                            |
| 43. | Artificial Intelligence Based Digital Spirit Level For Construction | Dr Bhupesh P Nandurkar, Dr. Amit Kumar, Dr. Rajesh, D. Devendra, Dr. A. Sashikumar, Dr.Abhay, Dr. M. Samuel, <b>Dr. K.V. Ramana</b> , Dr. C.V. Prasad           | 427899-001<br><b>(CE)</b> | Nov 2024   |                            |
| 44. | Sensor Based Robotic Display For Interactive Marketing              | Dr. Amardeep Gupta, Dr Bably Dolly, Dr. Sunil Babu Melingi, <b>Mr.M. Kiran Kumar</b> , Dr.Anandhan Mahendran, Prof. Ananda Shankar Hati, Dr Muthukumar Krishnan | 6403643<br>(CSE)          | 11/10/2024 |                            |
| 45. | Artificial Intelligence Based Cloud Data Security Detector          | Mr. Poovendran Alagarsundaram, Mrs. Shabnam Ara, Mrs. Tl Deepika Roy, <b>Ms. M. Swathi</b> , Dr. Putta Durga ,Mr. Abhlah                                        | 443944-001                | 27/03/2025 |                            |

| Sl. | Patent Title                                                        | Applicants/<br>Inventors                                                                                                                                           | Patent No.                                 | Filed Date | Granted/Pu<br>blished Date |
|-----|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|----------------------------|
| 46. | AI Based Smart Brain Monitoring Device for Detecting Brain Activity | Dr.C.S.Boopathi ,<br>Dr.Ramesh Babu Pittala,<br><b>Mr.Rajasekhar P</b> , Dr. Prasanth Kamma,<br>Mr.Vijay Kumar Gottipati                                           | 434430-001                                 | 03/01/2025 |                            |
| 47. | Device for Testing Integrated Circuits                              | Dr.M.Mahaboob Basha<br><b>Dr.P.Lachi Reddy</b><br>Dr.S.Vijayakumar<br>Dr.G.Srinivasulu<br>Dr.V.Madhurima<br>Ms.M.Bharathi<br>G.SAndhyakumari                       | 421143-001                                 | 25-07-2024 |                            |
| 48. | Self Adjusting Systems for Off Road Vehicles                        | Dr.Jayasri N Nair<br><b>Dr.V.dhanaraju</b><br>Spoumya Ranjan Pradhan<br>Dr.Abedalrzaq Aisqirate                                                                    | 422510-001<br><b>(Design)</b><br>IPR-India | 06.07.2024 | 22.08.2024                 |
| 49. | AI-Powered Carbon Sequestration Device                              | Dr.SubhashChouhan<br>Dr.Satish Kumar Patel<br>KrritRasiklalRat<br>Dr.SmrutiGantayat<br>Dr.KshanPrabha Sahoo<br><b>Mr. JonnalaSubba Reddy</b><br>Miss Nirmala Patel | 440623-001                                 | 14.12.2024 | 07.02.2025                 |

| Sl. | Patent Title                                                                        | Applicants/<br>Inventors                                                                                                                               | Patent No. | Filed Date | Granted/Pu<br>blished Date |
|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----------------------------|
| 50. | Smart Cane For<br>Blind Users                                                       | Er. Bint UI Huda<br>Mrs.Pallave<br>Amol Patil<br><b>Mr.<br/>JonnalaSubba<br/>Reddy</b><br>Dr.Vhavani<br>Shankar<br>Ravindra                            | 438209-001 | 23.11.2024 | 07.02.2025                 |
| 51. | Vibration<br>Damping Analyzer<br>Posite Beam                                        | Dr.PranoyDebna<br>th<br>Mr.Pankaj<br>Prakash Bhirud<br>Dr.NirmalaWark<br>e<br>Mr.Omesh<br>Kumar<br>Chandrakar<br><b>Mr.<br/>JonnalaSubba<br/>Reddy</b> | 440051-001 | 10.12.2024 | 07.02.2025                 |
| 52. | Off-Grid Power<br>Management<br>Device                                              | Mr.Varun Yadav<br>Mr.Swaroop<br>Mallik<br>Dr.Basanth<br>Kumar Bhuyan<br><b>Mr. Jonnala<br/>Subba Reddy</b>                                             | 437654-001 | 18.11.2024 | 07.02.2025                 |
| 53. | A Digital Financial<br>Device<br>Forecasting and<br>Analysing Stock<br>Transactions | Dr. Sailaja<br>Nimmagadda<br><b>Dr. R.<br/>Jeyalakshmi</b><br>Mr. Surapaneni<br>Ravi Kishan<br>Dr. Y V Naga<br>Kumari                                  | 417817-001 | 19-07-2024 |                            |

## Details of Sponsored Research during the A.Y.: 2024-25

- |                                                                                |                   |
|--------------------------------------------------------------------------------|-------------------|
| i. No. of <b>Sanctioned &amp; Ongoing</b> Research Projects during this A.Y.   | : 5 & 11          |
| ii. No. of Research Projects <b>Completed</b>                                  | : 01              |
| iii. No. of Grants <b>other than Research Projects</b>                         | : 01              |
| iv. Total <b>Funds mobilized</b> from Funding Agencies during <b>this A.Y.</b> | : Rs. 57,00,000/- |

### Research Projects

| S.No.          | Principle Investigator                                                                                                                    | Title of the Project                                                                                         | Funding Agency-Scheme                    | Amount Sanctioned & Date | Amount Received in Rs.& Date | Duration & Status                              |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------|------------------------------|------------------------------------------------|
| 1.             | <b>Dr. K. Appa Rao</b> ,<br>Chief Mentor<br><b>Dr. B. Rambabu</b> ,<br>Coordinator, ECE<br><b>Dr. K. MURahari</b> ,<br>Co-Coordinator, ME | AICTE - IDEA Lab                                                                                             | AICTE & IDEA Lab                         | 30,00,000                | 10,00,000<br>12-05-2025      | 2 Years                                        |
| 2.             | <b>Dr. P. Vijaya Kumar</b>                                                                                                                | FDP on Emerging Green Hydrogen Energy Technologies for Societal Sustainability and Climate Change Mitigation | AICTE-ATAL Online FDP for the AY 2024-25 | 1,00,000                 | 21-11-2024                   | 16-12-2024 to 21-12-2024<br><b>(Completed)</b> |
| 3.             | <b>Hema Sai Sri Chandana Odugu</b><br>(22761A4H5)<br>Dr. T. Satyanarayana<br><b>(Mentor)</b>                                              | Smart gas leakage detection, monitoring and prevention system for smart cities                               | MSME Idea Hackathon 4.0 (Youth)          | 15,00,000<br>27-06-2025  |                              | 1 Year                                         |
| 4.             | <b>Koritala Sravya</b><br>(22761A1236)<br>Mr. Ch. Sambasiva Rao<br><b>(Mentor)</b>                                                        | SensiStick                                                                                                   | MSME Idea Hackathon 4.0 (Youth)          | 15,00,000<br>27-06-2025  |                              | 1 Year                                         |
| 5.             | <b>Imandi Vasavi</b><br>(21761A05F8)<br>Dr. B. Sivaramakrishna,<br>Dr. K. Devipriya<br><b>(Mentors)</b>                                   | IoT integrated system for gas leak detection and threat zone identification and method employed thereof      | MSME Idea Hackathon 4.0 (Youth)          | 15,00,000<br>27-06-2025  |                              | 1 Year                                         |
| 6.             | <b>Pulavarthi Ramesh Chand</b><br>(23761A0446)<br><b>Dr. G. Srinivasulu</b><br><b>(Mentor)</b>                                            | IoT enabled accident prevention system                                                                       | MSME Idea Hackathon 4.0 (Youth)          | 15,00,000<br>27-06-2025  |                              | 1 Year                                         |
| <b>ONGOING</b> |                                                                                                                                           |                                                                                                              |                                          |                          |                              |                                                |

|     |                                                                                   |                                                                                                                |                                                     |                                |                                                                             |                          |
|-----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|--------------------------|
| 7.  | K. Akhila<br>(22765A0209)<br>Dr. G. Nageswara Rao<br>(Mentor-EEE)                 | PV Powered Smart<br>Handcart for Street<br>Food Vendors<br>Cooking Food and<br>Selling on Site                 | MSME-Idea<br>Hackathon<br>3.0 (Woman<br>Chapmpions) | 15,00,000/-<br>&<br>14-03-2024 | 10,50,000/-<br>26-12-2024                                                   | 1 Year<br>&<br>Santioned |
| 8.  | Tupakula Sruthi<br>Kumari<br>(22761A02A4)<br>Dr. G. Nageswara Rao<br>(Mentor-EEE) | Detection And<br>Analysis of Mental<br>Stress in Online<br>Learning Using IoT<br>Devices                       | MSME-Idea<br>Hackathon<br>3.0 (Woman<br>Chapmpions) | 15,00,000/-<br>&<br>14-03-2024 | 10,50,000/-<br>26-12-2024                                                   | 1 Year<br>&<br>Santioned |
| 9.  | Kotapati Sravanthi<br>(21761A4233)<br>Dr. M. Sitha Ram<br>(Mentor_CSE)            | Wearable Smart<br>System for Visually<br>Impaired People                                                       | MSME-Idea<br>Hackathon<br>3.0 (Woman<br>Chapmpions) | 15,00,000/-<br>&<br>14-03-2024 | 10,50,000/-<br>26-12-2024                                                   | 1 Year<br>&<br>Santioned |
| 10. | Oleti Prathyusha<br>(20761A12A1)<br>Dr. K. Venu Gopal,<br>(Mentor_IT)             | Oxygen<br>Management<br>Alarm                                                                                  | MSME-Idea<br>Hackathon<br>2.0                       | 15,00,000/-<br>&<br>13-07-2023 | 10,50,000/-<br>&<br>18-12-2023<br>4,50,000/-<br>19-02-2025                  | 1 Year<br>&<br>Ongoing   |
| 11. | Dr.B.Poornaiah<br>Professor<br>Dept. of ECE                                       | Design and<br>Characterization of<br>a Carbon Nanotube<br>(CNT) Strain<br>Sensor for<br>Prosthetic<br>Implants | SERB                                                | 16,71,780/-<br>&<br>01-12-2023 | 5,97,000/-<br>05-01-2024<br>5,00,000<br>August 2025                         | 3 Years<br>& Ongoing     |
| 12. | Dr. B. Rambabu<br>Professor<br>Dept. of ECE                                       | Development and<br>Characterization of<br>Miniaturized<br>Piezoresistive<br>Cantilever for<br>Biosensors       | SERB-EEQ                                            | 27,96,332<br>&<br>17-12-2022   | 14,71,000<br>02-03-2023<br>5,00,000<br>28-08-2024<br>4,00,000<br>24-07-2025 | 3 Years &<br>Ongoing     |

Dean R&D