



K.L.N. COLLEGE OF ENGINEERING POTTAPALAYAM -630612

(An Autonomous Institution, Approved by AICTE, New Delhi
& Affiliated to University, Chennai)

YEAR 2024

PETAL – 1 JANUARY TO JUNE



VISION

To become a Centre of Excellence in Technical Education and Research in producing Competent and Ethical professionals to the society

MISSION

To impart Value and Need based curriculum to the students with enriched skill development in the field of Engineering, Technology, Management and Entrepreneurship and to nurture their character with social concern and to pursue their career in the areas of Research and Industry

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DEPARTMENT OF MECHANICAL ENGINEERING

Publications in International/National Journal

S. Nallathambi P. Sabarinath E.V. Ganeshbabu T. Samynathan, Enhancement of heat transfer for electronic device using heat pipes with nanofluids, International Research Journal of Engineering and Technology-Vol.11.-2, Feb 2024-2024

Publications in International/National Conference

1. **Dr. C. Anbumeenakshi, Mr. A. Chandru, Mr. M. Mugabalan, Mr. L. Esakkiraj**, “Evaporative Cooling System for the Storage of Fresh Tomato”, *National Level Conference on Global Technologies in Manufacturing and Thermal Sciences*, Organized by **Sethu Institute of Technology**, Kariapatti, April 2024.
2. **Mr. T. Samynathan, M. Arun Kumar, G. B. Manoj Prabhakar, R. Sanjay**, “Design and Analysis of Shock Absorber”, *National Level Conference on Global Technologies in Manufacturing and Thermal Sciences*, Organized by **Sethu Institute of Technology**, Kariapatti, April 2024.
3. **Mrs. B. Devi, Mr. J. Divyesh, Mr. M. Logith, Mr. R. Sivakumar**, “Mechanical Properties of Neem Bark and Seed Filler-Based Fiber”, *National Level Conference on Global Technologies in Manufacturing and Thermal Sciences*, Organized by **Sethu Institute of Technology**, Kariapatti, April 2024.
4. **Mr. T. L. Vijayakumar, Mr. R. Manikandan, Mr. M. S. Sivaprakash, Mr. R. Harikrishna Kanth**, “Design and Fabrication of Efficient Cleaning Mechanism for Photovoltaic (PV) Panels”, *National Level Conference on Global Technologies in Manufacturing and Thermal Sciences*, Organized by **Sethu Institute of Technology**, Kariapatti, April 2024.
5. **Dr. M. R. Thansekhar, Mr. M. Pradeep, Dr. N. Nagasubramanian, Mr. A. Manojkumar, Mr. S. Nitheshkumar, Mr. A. Pugazholi**, “Numerical Study of Mixed Convection in a Square Vented Enclosure”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
6. **Dr. C. Anbumeenakshi, Dr. A. Hemalatha, Mr. M. Veeramanikandan, Mr. S. K. Jaisarvesh, Mr. M. Harivarman**, “Design and Fabrication of Automated Triple Coconut Scraper”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
7. **Dr. A. Hemalatha, Dr. C. Anbumeenakshi, Mr. D. Sanjai, Mr. M. Harivignesh, Mr. J. Santhosh Pandi**, “Design and Fabrication of Multipurpose Wheel Chair”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
8. **Dr. P. Sabarinath, Mr. P. Bazil Ganth, Mr. B. P. Prasanna, Mr. S. Prasanth**, “Design and Fabrication of Sliding Floor Walker Power Generator”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
9. **Mr. T. Samynathan, Mr. M. S. Balaji, Mr. S. Keerthivasan, Mr. A. Joel Jerry**, “Chevron Nozzle Acoustic Reduction”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
10. **Dr. J. Rajesh Babu, Mr. N. Rajkumar, Mr. G. S. Santha Venkatesh, Mr. R. Jeyapandiprathap**, “Optimization of Mini Commercial Vehicle Crown Wheel using Alloys”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
11. **Mr. M. Mohan Raj, Dr. D. Muthukrishnan, Mr. T. Raghul, Mr. R. Velmurugan, Mr. R. G. Amarnath**, “Design and Fabrication of Self Aligning Robot”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
12. **Mr. S. Nallathambi, Dr. P. Sabarinath, Mr. M. Omprakash, Mr. G. Mukesh Ram, Mr. K. Mahesh Siva**, “Design & Development of Various Agro-Waste Enriched Fuel Blocks for Domestic and Industrial Application”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
13. **Mr. T. L. Vijayakumar, Mr. S. Gokul Prasath, Mr. S. Nagoor Sheriff, Mr. M. Sameer Dawood**, “Formulation of Compound to Develop PVS/PU Floater for Using in Fish Net Applications”, *International*

Conference on Sustainable Development in Engineering and Technology (ICSDET 24), Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.

14. **Mrs. B. Devi, Mr. P. S. Sanjay, Mr. M. S. Sanjaykumar, Mr. T. P. Siva Prakash**, “Propelling Innovation: Design and Analysis of Propeller Shaft”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET 24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, April 2024.
15. **Dr. D. Satheesh Pandian, Mrs. D. Thangamari, Mrs. V. Karpagam**, “Enhancing the Dependability of PLC-Based Automated Chemical Powder Filling Machine through Failure Analysis and Sequential Reliability Estimation”, *4th International Conference on Recent Trends in Engineering, Technology and Management*, Organized by **Suguna College of Engineering**, Coimbatore, April 2024.
16. **Dr. P. Udhayakumar, Dr. A. Hemalatha, Dr. C. Anbumeenakshi**, “Life Cycle Assessment – A Case Study with Hand Drying System”, *3rd National Quality Convention on ‘Role of Quality in Infrastructure Project for Nation Building & Inclusive Growth’*, Gujarat, March 2024.

Patents Filed / Published / Granted

S. No	Name of the Inventor(s)	Title of the Patent	Patent Number	Status (Filed / Published)	Granted	Year
1	K.L.N. College of Engineering Dr. C. Anbumeenakshi Dr. A. Hemalatha Dr. P. Udhayakumar Mr. N. Rajkumar Mr. M. Veeramanikandan Mr. M.K. Jaisarvesh Mr. M. Harivarman	Automated Triple Coconut Scraper	202441040765	Published	-	2024
2	K.L.N. College of Engineering Dr. D. Satheesh Pandian Mrs. D. Thangamari Dr.R. Karthick	Autonomous Solar Panel Tilting Device and Methods of Improving Power Regeneration thereof	202441009997	Published	-	2024
3	Dr. Satheesh Pandian Durairaj Dr.Iwin Thanakumar Joseph Swamidason Dr.Pawanjeet Kaur Dr.Arindam Gosh Dr.Mansi Bhonsle Dr.VijayBharadwaj	Smart Brain Monitoring Head set	6372127	Filed	Granted	2024
4	Dr.S.Thanga Kasi Rajan Mr.G Anand Mr.M.Dinesh Karthick Mr. P. Thirumurugan Mr. B.K.Parrthipan	Luggage rack with foldable solar panel for E-Vehicle	408543-001	Published	-	2024

	Dr.J.Rajesh Babu Dr. P.Sureshkumar Mr. S.Alwyn Rajiv Dr. S.Senthil Dr. S.Gandhi Dr. R.Suresh Babu Dr. D.Prince Winston					
5	K.L.N. College of Engineering Dr. S. Parthasarathy. Mr. S. Nallathambi Mr. P. Sthya Narayanan Mr. T. Raghul Mr. R. Thangasankaran	Pedal Pump	419724-001	Published	-	2024

Funding obtained from National bodies/AU/Industry

S.No.	PI & CO- PI	Title of the Research project	Fund Generated / Proposal Applied	Funding Agency	Amount Generated / Proposed	Date and Month of Funding Approved
1	Dr.P.Udhayakumar Prof/Mech	Two Day All India Seminar on Advancement in Electric Vehicles	-	The Institution of Engineers (India), Madurai Local Centre	Rs.18,000/	29.05.24 to 30.05.24

Industrial Visits

Year/Sem	Date	Industry Visited
2024	01.04.24	Kwality Coils Private Ltd, Poigaikaraipatty, Alagar Kovil Main Road, Madurai
2024	05.03.24	VV Coldtech, Thanichyam, Madurai.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Publications in International/National Journal

1. **Dr. S. Venkatanarayanan**, "An Optimized Design Modeling of PV Integrated SEPIC Based Single-Phase System", *Technical Gazette* (Scopus, WoS; DOI:10.17559/TV-2023072-0000816), **Vol.31, Issue 2, 2024.**
2. **Dr. S. Venkatanarayanan**, "Competent Energy Executing Structure in the Solar Sheet in the IoT Environment", *Electric Power Components and Systems* (Scopus, WoS; DOI:10.1080/15325008.2023.2226143), **Vol.52, Issue 3, 2024.**

3. **Dr. S. M. Kannan**, “Design of Single Switch Improved High Gain Boost Converter with Reduced Voltage Stress”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
4. **Dr. S. M. Kannan**, “Improvement of Solar Energy Load Management Based on IoT Integrated MPPT Charge Controller”, *International Research Journal of Modernization in Engineering Technology & Science* (ISSN:2582-5208), **Vol.6, Issue 4, 2024**.
5. **Dr. S. Venkatesan, Dr. P. Loganthurai, Mr. A. Marimuthu**, “Design and Analysis of Cascaded Buck-Boost Converter Using Solar MPPT Method for Electric Vehicle Charging Applications”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
6. **Dr. S. Venkatesan, Dr. S. M. Kannan, Dr. P. Loganthurai**, “Design and Analysis of Quadrupler Boost Converter and BMS for Electric Vehicle Battery Charging Applications”, *International Research Journal of Modernization in Engineering Technology & Science* (ISSN:2582-5208), **Vol.6, Issue 4, 2024**.
7. **Dr. K. Gnanambal**, “Single-Phase Bridgeless Three-Level Power Factor Correction”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 5, 2024**.
8. **Dr. K. Gnanambal**, “Fault Classification in Microgrid Using Neural Network”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 5, 2024**.
9. **Dr. S. Parthasarathy, Mr. R. Thangasankaran**, “Green Drive Charger – Harnessing Renewables for EV’s Li-ion Batteries with Cutting-Edge Boost Converter”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 5, 2024**.
10. **Dr. S. Venkatanarayanan**, “Energy Audit Solutions for Chemical Industries”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 4, 2024**.
11. **Mr. A. Marimuthu**, “Charging of Car Battery in Electric Vehicle Using Wind Energy”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
12. **Dr. P. Loganthurai, Dr. S. Venkatesan, Mr. A. Marimuthu**, “Effective Utilization of Solar Energy and Batteries in Dual Battery in Electric Vehicles”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 4, 2024**.
13. **Dr. M. Jegadeesan**, “Design and Implementation of Single-Input-Multi-Output DC-DC Converter Topology for Electric Vehicles”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
14. **Dr. M. Ganesh Kumari**, “Design and Implementation of Smart Street Light Management System”, *Journal of Next Generation Technology* (ISSN:2583-021X), **Vol.4, Issue 2, 2024**.
15. **Dr. M. Ganesh Kumari**, “Active Voltage Restoration Technique for Elevating Power Quality”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
16. **Mr. M. Jeyamurugan**, “Smart Waste Bin Monitoring System Using Arduino”, *ESP International Journal of Communication Engineering & Electronics Technology* (ISSN:2583-9217; DOI:10.56472/25832646), **Vol.2, Issue 1, 2024**.
17. **Mr. M. Jeyamurugan**, “Industrial Waste Water Monitoring Using IoT”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 1, 2024**.
18. **Mr. M. Balamurugan**, “Line Fault Detection with GSM”, *International Research Journal of Modernization in Engineering Technology & Science* (ISSN:2582-5208), **Vol.6, Issue 4, 2024**.
19. **Mr. R. Jeyapandiprathap**, “Efficient QR Component Dispensing System for Seamless Industrial Automation”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 1, 2024**.
20. **Mr. R. Jeyapandiprathap**, “Integration of AI in 3D Printing”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 1, 2024**.
21. **Mr. N. Vimal Radha Vignesh**, “Design and Implementation of an Efficient Energy Conservation System”, *Journal of Transportation System Engineering and Information Technology* (ISSN:1009-6744), **Vol.12, Issue 4, 2024**.
22. **Mr. N. Vimal Radha Vignesh**, “A Novel Approach for Revolutionizing Clean Living with Advanced Air Purification Technology”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 2, 2024**.
23. **Mr. A. Manoj**, “Maximizing Agriculture Yield Using UV Ray and IoT”, *ESP Journal of Engineering & Technology Advancements* (ISSN:2583-2646; DOI:10.56472/25832646), **Vol.4, Issue 1, 2024**.

Publications in International/National Conference

1. **Dr. S. M. Kannan, D. Anil Kumar, J. P. Chandrual, S. G. Prathyushbabu**, “Design of Single Switch Improved High Gain Boost Converter with Reduced Voltage Stress”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
2. **Dr. S. M. Kannan, S. Sivaseshan, S. Velmurugan, M. Vishwha Karthickeyan**, “Improvement of Solar Energy Load Management Based on IoT Integrated MPPT Charge Controller”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
3. **Dr. S. Venkatesan, S. Amirtha, S. S. Dharini Subha, M. U. Thirisha**, “Design and Analysis of Cascaded Buck-Boost Converter Using Solar MPPT Method for Electric Vehicle Charging Applications”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
4. **Dr. S. Venkatesan, K. S. Adithya Chiranjeevi, S. Gokul Ganesh, S. Schwag**, “Underground Cable Fault Detector”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
5. **Dr. K. Gnanambal, A. Shandya Sree, K. S. Subalakshmi, M. Vijayalakshmi**, “RF Based Border Security System”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
6. **Dr. S. Parthasarathy, S. Kasivelan, M. Lakshmanan, M. Raman**, “Green Drive Charger – Harnessing Renewables for EV’s Li-ion Batteries with Cutting-Edge Boost Converter”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
7. **Dr. S. Venkatanarayanan, A. R. Venkatesh Babu, K. Sugavanesh, B. Mohanram**, “Energy Audit in MSME Industries”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
8. **Dr. S. Venkatanarayanan**, “Solar Power Prediction Using Deep Learning Techniques”, *RTAIBCTIOT – 2024*, Organized by **Sri Raajaraajan College of Engineering and Technology**, Karaikudi, January 2024.
9. **Dr. S. Venkatanarayanan**, “Innovative Analysis of Power Quality in Distribution System”, *RTAIBCTIOT – 2024*, Organized by **Sri Raajaraajan College of Engineering and Technology**, Karaikudi, January 2024.
10. **Dr. S. Venkatanarayanan**, “Performance Enhancement of MSME Sector by Conducting Energy Audit Using Artificial Intelligence”, *RTAIBCTIOT – 2024*, Organized by **Sri Raajaraajan College of Engineering and Technology**, Karaikudi, January 2024.
11. **Dr. S. Venkatanarayanan**, “Dragonfly Optimization to Improve SAPV System Efficiency Through IoT in Real-World Weather Conditions”, *RTAIBCTIOT – 2024*, Organized by **Sri Raajaraajan College of Engineering and Technology**, Karaikudi, January 2024.
12. **Dr. S. Venkatanarayanan**, “Solar Power Prediction Using Deep Learning Techniques”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
13. **Dr. S. Venkatanarayanan**, “Smart Health Monitoring of PV and Early Fault Identification Using ANN”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
14. **Dr. S. Venkatanarayanan**, “Power Quality of Multilevel Inverter Using Novel Techniques for Medical Equipment”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
15. **Dr. S. Venkatanarayanan**, “Hybrid Solar Power Prediction Using Artificial Intelligence”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
16. **Dr. S. Venkatanarayanan**, “Detection of Choroid and Retinal Thickness by Si-Au MEMS Sensor in OCT”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
17. **Dr. S. Venkatanarayanan**, “An Internet of Things Based Joint Energy Auditing, Energy Conservation and Energy Management System for Industries”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
18. **Dr. S. Venkatanarayanan**, “Hybrid Feature Extraction for Solar Energy Prediction Using CatBooster Classifier”, *Innovative Trends in IT (IC2IT23)*, Organized by **Alagappa University**, Karaikudi, January 2024.
19. **Mr. A. Marimuthu, K. Karthi, R. Namashivaya, K. Shyam**, “Charging of Car Battery in Electric Vehicle Using Wind Energy”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.

20. **Dr. P. Loganthurai, S. P. Jeyaram, M. Yokes Kumar, K. Yawin**, “Effective Utilization of Solar Energy and Batteries in Dual Battery Electric Vehicles”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
21. **Dr. M. Jegadeesan, K. Alagupandi, G. R. Arunachalam, K. Muthu Kumar**, “Design and Implementation of Single-Input Multi-Output DC-DC Converter Topology for Electric Vehicles”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
22. **Dr. M. Ganesh Kumari, M. Aarthi, J. Elakkia, V. Jayasutha**, “Design and Implementation of Cloud-Based Automatic Street Light Management System”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
23. **Dr. M. Ganesh Kumari, D. Sangeetha, P. Swathi**, “Power Quality Enhancement for Voltage Sag Disturbances”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
24. **Dr. M. Ganesh Kumari**, “Effective Utilization of Solar PV System for Small Power Applications”, *National Conference on Information and Communication Technologies (NCICT’24)*, Organized by **SSN College of Engineering**, Chennai, February–March 2024.
25. **Dr. M. Ganesh Kumari, M. Aarthi, J. Elakkia**, “Wireless Solar Charging System for Electric Mobility”, *International Conference on Sustainable Development in Engineering and Management (ICSDEM 2024)*, Organized by **Sri Krishna College of Technology**, Coimbatore, April 2024.
26. **M. Jeyamurugan, T. Pragatheswaran, S. Prathish Kumar, M. Gokul Anand**, “Smart Waste Bin Monitoring System Using Arduino”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
27. **M. Jeyamurugan, S. Surya, R. Santhosh, S. Surya Prakash**, “Industrial Waste Water Monitoring Using IoT”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
28. **M. Balamurugan, M. Gowthaman, A. Karunanithi**, “Line Fault Detection with GSM”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
29. **R. Jeyapandiprathap, T. Dinesh, C. Hemananthakumar, S. Karthikeyan**, “Efficient QR-Driven Component Dispensing System for Seamless Industrial Automation”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
30. **R. Jeyapandiprathap, K. Praveen Surya Rao, A. Gokul Krishna, J. Theivasilakiam**, “Integration of Artificial Intelligence in 3D Printing in Industry”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
31. **N. Vimal Radha Vignesh, M. Karthik, M. Perinban, S. Saran Prasanna**, “Design and Implementation of an Efficient Energy Conservation System”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
32. **N. Vimal Radha Vignesh, R. P. S. Sri Bava, R. Sampath Kumar, P. Sanjay Kumar**, “A Novel Approach for Revolutionizing Clean Living with Advanced Air Purification Technology”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
33. **A. Manoj, R. Karthigai Selvan, T. Naveen Kumar, S. Ragul Krishna**, “Maximizing Agriculture Yield Using UV Ray and IoT”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
34. **R. Thangasankaran**, “Enhancing Manufacturing Plant Efficiency: Predictive Maintenance of Electrical Installations Using Thermal Imaging Technology”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET’24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai, April 2024.
35. **R. Thangasankaran**, “Investigation of Applications of Novel Converters for Hybrid Renewable Energy Systems”, *2nd International Conference on Intelligent Data Communication Technologies and Internet of Things*, Organized by **REVA University**, Bengaluru, January 2024

Short term courses/seminar/symposium attended by the Faculty Members:

S. No	Name and Designation of the Faculty Member	Seminar / Workshop / Course Attended	Date / Place
1	Dr. S. Venkatesan, Prof./EEE	One Week Short Term Course (Hybrid Mode) on Sustainable and Smart Grid Technologies	29.04.2024 – 03.05.2024, IITD&M Kancheepuram, Chennai
2	Dr. S. Venkatesan, Prof./EEE	5 Days Online FDP on Exploring Sustainable Horizons in Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology, Dindigul
3	Dr. S. Venkatesan, Prof./EEE	FDP on Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles	26.02.2024 – 01.03.2024, SCMS School of Engineering & Technology, Ernakulam
4	Dr. K. Gnanambal, Prof./EEE	NPTEL AICTE Faculty Development Programme on Protection of Power System (8 Week Course)	Jan – Mar 2024, IIT Roorkee
5	Dr. S. Parthasarathy, Prof./EEE	Delivered Lecture on Technical Challenges of EV – All India Seminar on Advancements in Electric Vehicles	29.05.2024, K.L.N. College of Engineering
6	Dr. S. Venkatanarayanan, Prof./EEE	Delivered Lecture – PEACE Training Program for MSME Industries	13.03.2024 – 15.03.2024, District Industries Centre, Tirupattur
7	Dr. S. Venkatanarayanan, Prof./EEE	Delivered Lecture – PEACE Awareness Program for MSME Industries	12.03.2024, District Industries Centre, Tirupattur
8	Dr. S. Venkatanarayanan, Prof./EEE	Delivered Lecture – PEACE Training Program for MSME Industries	08.03.2024 – 11.03.2024, District Industries Centre, Erode
9	Dr. S. Venkatanarayanan, Prof./EEE	Delivered Lecture – PEACE Training Program for MSME Industries	05.03.2024 – 07.03.2024, District Industries Centre, Erode
10	Dr. S. Venkatanarayanan, Prof./EEE	Delivered Lecture – PEACE Training Program for MSME Industries	27.02.2024 – 29.02.2024, District Industries Centre, Tiruchirappalli
11	A. Marimuthu, ASP/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology, Dindigul
12	A. Marimuthu, ASP/EEE	NPTEL AICTE FDP – Vehicle Dynamics and Electric Motor Drives	Jan – Mar 2024, IIT Madras
13	A. Marimuthu, ASP/EEE	FDP on Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles	26.02.2024 – 01.03.2024, SCMS School of Engineering & Technology, Ernakulam
14	Dr. P. Loganthurai, ASP/EEE	Delivered Lecture on Role of Renewable Energy in National Development	10.05.2024, K.L.N. College of Engineering
15	Dr. P. Loganthurai, ASP/EEE	One Week Short Term Course on Sustainable and Smart Grid Technologies	29.04.2024 – 03.05.2024, IITD&M Kancheepuram
16	Dr. P. Loganthurai, ASP/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology
17	Dr. M. Jegadeesan, ASP/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology
18	Dr. M. Jegadeesan, ASP/EEE	NPTEL Certification – Vehicle Dynamics and Electric Motor Drives	Jan – Mar 2024, IIT Madras
19	Dr. S. Manoharan, AP (Sr.Gr.)/EEE	NPTEL Certification – Introduction to Internet of Things (12 Week Course)	Jan – Apr 2024, IIT Kharagpur
20	Dr. M. Ganesh Kumari, AP (Sr.Gr.)/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology
21	Dr. M. Ganesh Kumari,	NPTEL AICTE FDP – Teaching and	Jan – Feb 2024, IISc Bangalore

	AP (Sr.Gr.)/EEE	Learning in Engineering (TALE)	
22	Dr. M. Ganesh Kumari, AP (Sr.Gr.)/EEE	Resource Person – One Day Technical Lecture	11.03.2024, SBM College of Engineering and Technology, Dindigul
23	Dr. M. Ganesh Kumari, AP (Sr.Gr.)/EEE	International FDP – Emerging Technologies in Computer Science	22.01.2024 – 27.01.2024, Eswari Engineering College, Chennai
24	M. Jeyamurugan, AP (Sr.Gr.)/EEE	NPTEL AICTE FDP – Cloud Computing	Jan – Apr 2024, IIT Kharagpur
25	M. Jeyamurugan, AP (Sr.Gr.)/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology
26	M. Jeyamurugan, AP (Sr.Gr.)/EEE	NPTEL AICTE FDP – Privacy and Usable Security	Jan – Feb 2024, IIT Madras
27	R. Jeyapandi Prathap, AP/EEE	5 Days Online FDP on Renewable Energy and Electric Vehicles	01.04.2024 – 05.04.2024, PSNA College of Engineering and Technology
28	R. Jeyapandi Prathap, AP/EEE	NPTEL Certification – EV Vehicle Dynamics and Electric Motor Drives	Jan – Mar 2024, IIT Madras
29	N. Vimal Radha Vignesh, AP/EEE	FDP on Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles	26.02.2024 – 01.03.2024, SCMS School of Engineering & Technology
30	A. Manoj, AP/EEE	National Level FDP on Outcome Based Education and Application of Generative AI in Teaching and Research	06.03.2024 – 13.03.2024, Government College Kottayam
31	R. Thangasankaran, AP/EEE	Delivered Lecture – Role of Advanced Power Converters in Chargers, Controllers and Grid	29.05.2024, K.L.N. College of Engineering
32	R. Thangasankaran, AP/EEE	NPTEL AICTE FDP – Introduction to Programming in C	Jan – Mar 2024, IIT Kanpur

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No. of Participants
26.04.2024	Conservation of Electrical Energy, Safety and Importance of Earthings	Er.V.Balasubramani, Assistant Engineer, TANGEDCO,Keeladi Section.	33
06.03.2024 to 08.03.2024	PCB DESIGN	Mrs. M.Gayathri Lakshmi. , Associate Trainer, Mr. S.Vishnu Dev, Associate Trainer, Mr. B.Jai Narayanan., Chief Trainer, HI-TECH Academy , Madurai.	52
29.01.2024 to 03.02.2024	“Python Boot camp” – Phase-II	Er.J.Janarthan,Full Stack Developer,M/s Step For Code, Madurai.	40
29.01.2024 to 02.02.2024	“Embedded Systems Controller and Applications”-Phase-II	A.Kesavan , CEO,T.Muthutamil , DeveloperQUANTANICS TECHSERV Pvt. LTD, Madurai.	33
	Python Boot camp” –	Er.J.Janarthan,	33

03.01.2024 to 11.01.2024	Phase-I	Full Stack Developer, Er.M.Vignesh, Technical Trainer, M/s Step For Code, Madurai.	
03.01.2024 to 09.01.2024:	“Embedded Systems Controller and Applications”-Phase-I.	A.Kesavan , CEO, T.Muthutamil , Developer QUANTANICS TECHSERV Pvt. LTD, Madurai	40

Guest Lectures / Expert Talks Organized

S. No	Name of the Speaker	Topic	Organization	Institution	Date
1	Mr.A.M.Govind Kumar,	“Automated Learning in Electrical Industry ”(Online), Chennai.	SeaportAi/Director	-	15.03.2024
2	Mr.Avinash S Kumar,	“Introduction to Arduino and it's Applications ”	Curriculum and Product Development (CDP), Networkz Systems, Madurai.	-	15.03.2024
3	Mr.Vishnu Dev,	“Navigation the World of PCB Design- From Concept to Circuit”	Faculty,Hi-Tech Academy, Madurai.	-	22.02.2024

NPTEL Online Certification Courses (Students)

S.No.	Name of the Student	Year	NPTELCourseName	Duration	Award (Elite/Silver/Pass)
1.	Ajith Kumar M K	2024	Introduction To Internet Of Things	12week	Elite+Silver
2.	AKASH R	2024	Cloud Computing	12week	Successfully completed
3.	Arivumathi P	2024	Cloud Computing	12week	Elite
4.	Devadharshini B	2024	Cloud Computing	12week	Elite
5.	Dhana Balan	2024	Introduction To Internet Of Things	12week	Elite
6.	Dhana Balan	2024	Cloud Computing	12week	Elite
7.	Dhanushkumar V S	2024	Cloud Computing	12week	Elite

8.	B Dinesh	2024	Introduction To Internet Of Things	12week	Elite
9.	Dinesh CS	2024	Cloud Computing	12week	Elite
10.	Gopikaa P K	2024	Cloud Computing	12week	Elite
11.	Hari Krishna R	2024	Introduction To Internet Of Things	12week	Elite
12.	HARI KRISHNA R	2024	Cloud Computing	12week	Elite
13.	Harini K	2024	Cloud Computing	12week	Successfully completed
14.	Harini R S	2024	Cloud Computing	12week	Elite
15.	HEMALATHA S	2024	Cloud Computing	12week	Successfully completed
16.	JAI PHILBERT M	2024	Cloud Computing	12week	Elite
17.	JEEVA S	2024	Cloud Computing	12week	Elite
18.	Joshua S	2024	Introduction To Internet Of Things	12week	Elite
19.	JOSHUA S	2024	Cloud Computing	12week	Elite
20.	Kanimurugan S	2024	Introduction To Internet Of Things	12week	Successfully completed
21.	Karthick raja k	2024	Cloud Computing	12week	Successfully completed
22.	Kaushal R	2024	Cloud Computing	12week	Elite
23.	KAVIPRIYA S	2024	Cloud Computing	12week	Elite
24.	Lakshmi Narayanan K B	2024	Cloud Computing	12week	Elite
25.	Logesh Kumar S	2024	Introduction To Internet Of Things	12week	Elite
26.	LOKESHAN B	2024	Cloud Computing	12week	Elite
27.	Madhu Mitha M	2024	Cloud Computing	12week	Elite
28.	MAHIMA VISHALI R	2024	Cloud Computing	12week	Elite
29.	Mohamed Apsar	2024	Cloud Computing	12week	Successfully completed
30.	Mohammed Shahid J	2024	Introduction To Internet Of Things	12week	Elite+Silver
31.	Muhundana AR V	2024	Cloud Computing	12week	Elite

32.	Nagarjun A N	2024	Introduction To Internet Of Things	12week	Elite+Silver
33.	Nivetha R	2024	Cloud Computing	12week	Elite
34.	Prabhakarraj M	2024	Introduction To Internet Of Things	12week	Elite
35.	RAM KAILASH	2024	Introduction To Internet Of Things	12week	Elite
36.	RITHANYA P	2024	Cloud Computing	12week	Elite
37.	Saarika K	2024	Cloud Computing	12week	Elite
38.	Sanjay Ram K S	2024	Cloud Computing	12week	Elite
39.	SANTHOSH S	2024	Cloud Computing	12week	Elite
40.	Saravana Kumar T J A	2024	VLSI Design Flow: RTL to GDS	12week	Successfully completed
41.	Saravana kumar T J A	2024	Hardware Modeling Using Verilog	12week	Successfully completed
42.	Sathya T	2024	Introduction To Internet Of Things	12week	Elite
43.	Sharmitha	2024	Cloud Computing	12week	Elite
44.	SINDHIYA S	2024	Cloud Computing	12week	Successfully completed
45.	Sivakumar R C	2024	Cloud Computing	12week	Successfully completed
46.	sivalingam R	2024	Cloud Computing	12week	Successfully completed
47.	Somasundharam M	2024	Cloud Computing	12week	Elite
48.	Sowmiya PS	2024	Cloud Computing	12week	Elite+Silver
49.	SRI HARI R P S	2024	Cloud Computing	12week	Elite
50.	Sriramkrishna	2024	Cloud Computing	12week	Successfully completed
51.	Swarna Sri SS	2024	Cloud Computing	12week	Elite
52.	THARANI S K	2024	Cloud Computing	12week	Successfully completed
53.	VEL MURUGAN K	2024	Cloud Computing	12week	Elite
54.	Vinoth Kumar S	2024	Introduction To Internet Of Things	12week	Elite+Silver
55.	VISHNU KUMAR R D	2024	Cloud Computing	12week	Elite

56.	Vishnukumar E H	2024	Introduction To Internet Of Things	12week	Elite
57.	VISHNUKUMAR E H	2024	Cloud Computing	12week	Elite
58.	BALAKUMARAN C J	2024	Cloud Computing	12week	Successfully completed
59.	KALANITHI S	2024	Cloud Computing	12week	Successfully completed
60.	Kumar N	2024	Cloud Computing	12week	Successfully completed
61.	Syed Ali S	2024	Cloud Computing	12week	Successfully completed

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Publications in International/National Journal

1. B.Buveneswari, T. R.Muthu, B.K.Priyadharshini, T.K.Veera Sarika and M.Rivenna Merlin, “Water purity tester using machine learning algorithms”, International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 1056-1064, March 2024. ISSN: 2319-63191.
2. M.Ganga and N.Janakiraman, “Adaptive-sized residual fusion network-based segmentation of biomedical images”, Engineering Optimization, Vol. 56, No. 7, pp.1045- 1064, March 2024. ISSN: 1045-1064. DOI: 10.1080/0305215X.2023.2218799.
3. S.Julicu Fusic and T.Sugumari, “A review of perception-based navigation system for autonomous mobile robots”, Recent Patents on Engineering, Vol. 17, No. 6, Article ID: e290922209298. ISSN: 2212-4047 DOI: 10.2174/1872212117666220929142031
4. S.C.Sivaprakash, S.M.Amarnath, K.Gurubaran, M.Nagul Anand and J.Narasimhan, “Public issues and rectification portal”, International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 695-699, March 2024. ISSN: 2319-63191.
5. S.R.Naresh, X.Bernis Mariya, S.Ilamathi and J.Latikaa Tejus, “An ESP32 based healthcare monitoring using integrating multiple sensors using Integromat and random forest algorithm”, International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 900-906, March 2024. ISSN: 2319-63191.
6. T.Sugumari, M.Thrisha, M.R.K.Subratha and K.K.Urjita, “Flexible microstrip patch antenna for ISM band application”, International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 700-705, March 2024. ISSN: 2319-63191.
7. 11.13. T.R.Muthu, B.Buveneswari, S.V.Arun Kumar, S.Karan, S.Mathanraja, “Smart crop: Automated crop monitoring and health assessment using machine learning and CNN”, International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 2276-2281, March 2024. ISSN: 2319-63191.
8. Gunji Sreenivasulu, Kavin Francis Xavier, M.Praveen, D.Arul Kumar, P.S.Kumaresh and G.Sudhakar, “Deep learning approach to detect gliomas brain tumour through classification at earlier stage”, Intelligent Journal of Intelligent Systems and Applications in Engineering, Vol. 12, No. 3, pp. 1514-1520, 2024. ISSN:

2147-6799.

9. M.Amudha, K.S.Niranjan, R.Ramyogesh and A.V.Rakesh, "Detection of artificially ripening of fruits using image processing", International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 1109-1112, March 2024. ISSN: 2319- 63191.
10. S.Ravisankar, T.S.Nikilan, S.Sriram and V.Thirumalai Raj, "E Uzhavar Sandhai - Connecting farmers and consumers in the digital marketplace using web services", International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 1050-1055, March 2024. ISSN: 2319-63191.
11. A.Meena, S.Pooja Mathumitha, A.Priyadharshini and V.Shree Nila, "Privacy control transaction using blockchain", International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 1122-1126, March 2024. ISSN: 2319-63191.
12. R.Pavithra, S.S.Yuvaraj, K.Vibunarendar and P.Vasanth, "Predicting seat vacancy for rural development using machine learning and image processing with CNN and linear regression algorithms. International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 1143-1148, March 2024. ISSN: 2319-63191.
13. R.Angayarkanni, R.Sobika, B.S.Subha Devi and M.L.Vaishnavi, "Integrating solar powered smart cold storage to support small scale farmers", International Journal of New Innovations in Engineering and Technology, Vol. 24, No. 1, pp. 2332-2337, March 2024. ISSN: 2319-63191.
14. S.Subha, M.Hari Priyaa, F.Asraf Nisha, R.Deepika and G.Indhumathi, "Low cost cold storage unit for horticultural produce", International Journal of Advanced Trends in Engineering and Management, Special Issue 2024, pp. 19-25, April 2024. ISSN: 2583- 7052. DOI: 10.59544/xwtp4969/icmtem24p3.
15. V.S.Aishwarya, R.Angayarkanni, T.Sugumari and B.Balan, "Automatic plant monitoring system", International Journal of Engineering Research and Technology, Vol. 12, No. 3, May 2024. ISSN: 2278-0181. DOI: 10.17577/IJERTCONV12IS03032
16. S.R.Naresh, K.Rishikesh and P.J.Makesh Babu, "Implementation of 16 bit RISC CPU at 1GHz clock speed in 45nm PDK", International Journal of Research Publication and Reviews, Vol. 5, No. 5, pp. 5751-5756, May 2024. ISSN: 2582-7421.
17. S.R.Naresh, R.Mugeshwaran and K.R.Premkumar, "Vehicle speed management system", International Journal of Research Publication and Reviews, Vol. 5, No. 5, pp. 6421-6424, May 2024. ISSN: 2582-7421.
18. S.R.Naresh, S.Regavendran and A.Mohamed Hafeef, "Bluetooth controlled car using Arduino", International Journal of Research Publication and Reviews, Vol. 5, No. 5, pp. 5655-5657, May 2024. ISSN: 2582 - 7421.
19. S.R.Naresh, R.Kowshik Narayan and S.Raja Ganapathy, "Blackmoon: Personal voice assistant", International Journal of Research Publication and Reviews, Vol. 5, No. 5, pp. 8099-8103, May 2024. ISSN: 2582-7421.

Publications in International/National Conference

1. R.Jeyanthi, S.Sreemann, T.B.Srikumar and S.Tamilarasan, "Real-Time IoT Enabled Electricity Consumption Monitoring for Individual Devices using Node MCU ESP-32 through LCD and Android Application", 8th International Conference on Engineering Technology and Science (ICETS'24), Muthayammal College of Engineering, Namakkal, 20 March 2024
2. S.R.Naresh, X.Bernis Mariya, S.Ilamathi and J.Latikaa Tejus, "An ESP 32 based Healthcare monitoring using integrating multiple sensors using Integromat and Random Forest Algorithm", 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
3. S.C.Sivaprakash, S.M.Amarnath, K.Gurubaran, M.Nagulanand and J.Narashiman, "Public Issues and

- Rectification Portal”, 8th International Conference on Engineering Technology and Science (ICETS'24), Muthayammal College of Engineering, Namakkal, 20 March 2024
4. T.R.Muthu, M.Ajay Kumar, T.Chithambaram and S.Jeyaraj, “Smart Shopping Trolley Using GSM”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 5. M.Amudha, K.S.Niranjana, A.V.Rakesh and R.Ramyogesh, “Detection of Artificially Ripening of Fruits using Image Processing”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 6. S.Ravisankar, T.S.Nikilana, V.Thirumalai Raj and S.Sriram, “E-Uzhavar Sandhai - Connecting Farmers and Consumers in the Digital Marketplace using Webservices”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 7. A.Meena, V.Shree Nila, A.Priyadharshini and S.Pooja Mathumitha, “Privacy Control Transaction using Blockchain”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 8. R.Pavithra, P.Vasanth, K.Vibunarendar and S.S.Yuvaraj, “Predicting Seat Vacancy for Rural Development using Machine Learning and Image Processing with CNN and Linear Regression Algorithms”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 9. B.Buvaneswari, S.Avinash Raj, R.Rajamuthu and S.Lokesh Kumar, “Touch Screen Based Restaurant order system using Zigbee”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 10. B.Buvaneswari, T.K.Veera Sarika and B.K.Priyadharshini, “Water Purity Tester using Machine Learning Algorithm”, 8th International Conference on Engineering Technology and Science (ICETS'24) 20 March 2024, Muthayammal College of Engineering, Namakkal.
 11. T.R.Muthu, S.V.Arunkumar, S.Karan, M.Krishnan and S.Mathanraja, “Smart crop: Automated Crop Monitoring and Health Assessment using Machine Learning and CNN”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 12. T.Sugumari, M.Thisha, K.K.Urjita and M.R.K.Subratha, “Flexible Microstrip Patch antenna for ISM band Application”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 13. R.Angayarkanni, M.L.Vaishnavi, B.S.Subha Devi and R.Sobika, “Integrating Solar - Powered Smart Cold storage to Support Small Scale Farmers”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 14. S.Indumathi, G.S.Shriram, T.M.Sivaprakash, J.R.Praveen Kumar, R.G.Senthil Murugan, “Enhancing Poultry Farming Practices: A Sensor-Driven Approach to Gas Emission Monitoring and Control”, 8th International Conference on Engineering Technology and Science (ICETS'24), 20 March 2024, Muthayammal College of Engineering, Namakkal.
 15. S.Subha, F.Asraf Nisha, M.Haripriya, G.Indhumathi and R.Deepika, “Low Cost Cold Storage for Horticultural Produce”, International Conference on Modern Trends in Engineering and Management, 02 April 2024, Stella Mary's College of Engineering, Aruthenganvilai.
 16. S.C.Sivaprakash, N.S.Dinesh Babu, S.Jeyaseelan and J.C.Kabilian, “Narrow Band Slotted Antenna for 5G Mobile Application”, International Conference on Information Technology and Smart Systems

(ICITSS'24),JP College of Engineering, Tenkasi, 03 & 04 April 2024.

17. .P.Karpagavalli, K.Sakthiyogesh, R.Praveen Kumar and M.P.Prasanth, "Facial Expression - Driven Music Selection", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
18. P.S.Kumares, T.B.Chandran, K.G.Kishore Babu, V.Vishnu Wardhan and T.M.Upenthiran, "Soldier Health Monitoring and Position Tracking System using IoT", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
19. R.Thilagavathy, K.Abdul Ajees, S.Kishore Kumar, S.U.Naveen Kumar and S.S.Lokesh Kumar, "Smart Fire Fighting and Control Mechanism using Quadcopter", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
20. L.Meenakshi, M.Sowmiya, D.Sona Shree and S.Shalini, "Dual-Band Implantable Antenna in Medical Application", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
21. L.Meenakshi, C.K.Syam Sundar, M.Sriharan, M.Ramanaa and B.Vikash, "A Microstrip Patch Antenna with H-Shape Slot for 5G Applications", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
22. S.Selvakumar, N.Janakiraman, G.Dhivyaa Varshini, T.M.Harshitha and M.S.Lakshmi Sri, "UPI Fraud detection using CATBOOST Machine learning algorithm", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
23. C.Sasirekha, A.Arunganesh, R.Harish Raja and K.Mohammed Hayyith, "Mixed Emotion Recognition in speech using Deep Learning", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
24. B.Balan, P.Velmuhil Prasanna, S.P.Ramprasath, R.Rajanithish Kumar and G.Ragul, "IoT Based Street Light System for Smart City", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
25. N.Janakiraman, T.P.Harish Kumar and A.Akash Mathavan, "Patato Leaf Disease Classification using Image Segmentation and SVM Techniques", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
26. S.Udhayakumar, N.Janakiraman, A.Jennifer, V.Sivapriya, M.Swathi and U.Adithan, "Anti Theft Monitoring System for Automobiles", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
27. K.Balamurugan and N.Janakiraman, "Efficient channel prediction & Resource Allocation in V2X Network using Weighted Matrix based Greedy Approach", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
28. R.Pavithra, N.Janakiraman, K.Rishikesh, P.J.MukeshBabu and K.R.Prem Kumar, "Design and Efficient Implementation of a low power two stage operational amplifier with high gain at 45nm CMOS technology", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
29. T.Balasharmitha, R.Sornalatha and N.Janakiraman, "A strategy for reducing difficulties in routing and placement at an advanced node of analog circuit", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.

30. S.Selvakumar, N.Janakiraman, S.Poorani, V.SriVageeswari Gayathri and R.B.Prashannakumar, "Load man's stair assistant", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
31. V.Meenakshi Sundaram, N.Janakiraman and B.Thrisha, "Machine learning based smart shopping system for personalized and efficient shopping experiences", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
32. S.Babu and N.Janakiraman, "Cutting-Edge Methods and Resources for Efficient Edge Inference, a Cornerstone of Edge AI", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), 05 April 2024, K.L.N. College of Engineering, Pottapalayam.
33. V.Kejalakshmi, R.P.Akshitha, M.Amuruthavarsha and P.Birundha Devi, "Performance analysis of Wi-Fi Jammer with Various Noise Distributions", International Conference on Sustainable Innovations in Engineering & Management (ICSIEM 2024), Sri Krishna College of Technology, Coimbatore, 16 & 17 April 2024
34. V.Kejalakshmi, A.R.Avinash, N.Dinesh and G.Karthik Kannan, "Deep learning based noise reduction in FM transmitter using the SDR platform", International Conference on Sustainable Innovations in Engineering & Management (ICSIEM 2024), Sri Krishna College of Technology, Coimbatore, 16 & 17 April 2024.
35. P.Karpagavalli, M.Dheeptha and A.N.Nagadharshini, "Self Driving Car using Machine Learning", International Conference on Sustainable Innovations in Engineering & Management (ICSIEM'24), 16 & 17 April 2024, Sri Krishna College of Technology, Coimbatore.
36. N.Janakiraman, T.S.Om Prasath, T.Tamil Bhuvanesh, R.Vignesh and S.Thambburaj, "HERBIFY-Medicinal Plant Identification Software with Geo-tagging for Supply Chain Authenticity", DST-SERB sponsored International Conference on Engineering'24 (VINCE'24), Velammal College of Engineering and Technology, Madurai, 17 & 18 May 2024.

Books / Book Chapters Published

S. No	Name of the Author(s)	Title of the Book	Chapter	Publisher	ISBN	Year
1.	P.Karpagavalli, S.Subha and S.Ravisankar	Digital Image Processing	–	Meenambegai Publication	978-93-5137-246-2	May 2024

Short term courses/seminar/symposium attended by the Faculty Members:

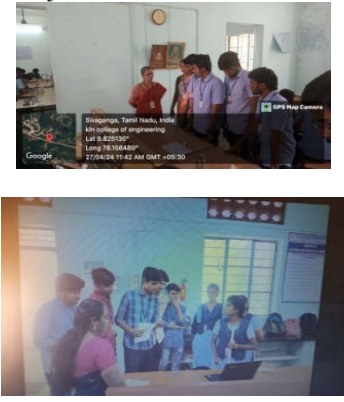
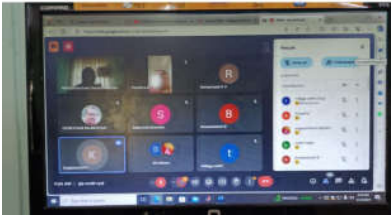
Name and Designation of the Faculty Member	Seminar/Workshop/Course Attended	Date/Place
Jeyanthi R	FDP	08/01/24 - 12/01/24/ATAL & AICTE
Naresh S.R	FDP	22/01/24 - 27/01/24 Easwari Engineering College, Chennai
Dr. B. Buvaneswari	FDP	01/01/24 - 06/01/24 Sree Sakthi College of Engineering
Dr. B. Buvaneswari	FDP	22/01/24 - 27/01/24 Easwari Engineering College

Dr. B. Buvaneswari	FDP	12/01/24 - 17/01/24 PAVAI Engg College
Dr. Muthu T R	FDP	01/01/24 - 06/01/24 Sree Sakthi Engg College
Dr. Muthu T R	FDP	22/01/24 - 27/01/24 Easwari Engineering College
Dr. Muthu T R	FDP	12/02/24 - 17/02/24 Paavai Engg College
R. Thilagavathy	Webinar	2024-01-12 QIS College of Engg and Tech
Meenakshi L	FDTP	12/02/24 - 17/02/24 Kamaraj College of Engineering
Meenakshi L	Hands-on	22/02/24 & 23/02/24 K.L.N. College of Engineering
Amudha M	FDP	22/01/24 - 27/01/24 Easwari Engineering College
Amudha M	FDP	12/02/24 - 17/02/24 Paavai Engineering College
D. Anand	FDP	04/02/24 - 09/02/24 Pantech e-Learning
Meena A	FDP	22/01/24 - 27/01/24 Easwari Engineering College
Meena A	FDP	12/02/24 - 17/02/24 Vishwakarma Institute of Tech
Pavithra R	Workshop	2024-02-18 Reccsar Private Limited
Pavithra R	FDTP	12/02/24 - 17/02/24 Kamaraj College of Engineering
Angayarkanni R	FDP	08/01/24 - 12/01/24 Edunet Foundation
Sugumari T	Webinar	17/01/24 & 18/01/24 Ansys with ARK Infosolution
Sugumari T	FDP	22/01/24 - 27/01/24 SRM Easwari Engineering College
Sugumari T	FDP	08/01/24 - 12/01/24 Edunet Foundation

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No.of Participants
2.1.24 – 5.1.24	Placement Training on Programming Skills Development	Mr.NikilSanagaram, Mr.AbishekSarangapani, Technical Team, Skill Bout, Bangalore	104
08.1.24- 13.1.24	Two weeks placement training on C in Depth	Mr.NikilSanagram and Mr.Abhishek Sarangapani, Technical Team, Skill Bout, Bangalore	104
31.01.24 & 01.02.24	Two days hands-on Training on Node MCU "IOT for Beginners"	Mrs.S.Indumathi AP/ECE, Mrs.R.Thilagavathy AP(Sr.Gr)/ECE KLNCE	52
06.02.24 & 07.02.24	Two Days Hands-on Training on "IoT using Raspberry Pi"	Mrs.S.Indumathi, Mrs.R.Thilagavathy KLNCE	24

13.02.24	Competency Development Program	Mrs.R.Renganayaki, Managing Director, TPM Tech Max, madurai	56
22.02.24& 23.02.24	IOT and Low Cost Hardware interfacing with MATLAB	R.Gowtham, Sr.Application Engineer-MATLAB, ARK InfosolutionsPvt.Ltd. Chennai.	100
28.02.24	National Science Day Quiz contest 	ST.John's School, Madurai	30
29.02.24	Awareness program in unlock the hidden entrepreneurship skills	Mr. Thejas Hari N U Alumini klncce	94
15.03.2024	REFLECHIR'24 – National Level Technical Symposium 2024	Mr. Chandranath Malli Amarnath Infrastructure Architect, IBM CIO 	70
26.3.2024	MatlabLearnathon	Dr.V.Kejalakshmi, Prof Head ECE, Dr. R.Jeyanthi, Prof ECE KLNCE	12
05.04.24	Online Webinar on CMOS Circuits using EDA Tools	Entuple Technologies	13
6.04.24	The Impact of AI in Engineering,	Dr.V.Muthu Ganesh, Quality Manager Elettra Tech pvt Ltd	30
17.04.24	IIPC sponsored Programming contest, “Tehfet 2K24”	Mr.VishalSivakumar, ManagingDirector,CTRL+P Madurai	50
20.04.24	Resume Building-online mode	Dr.V.Muthu Ganesh, Quality Manager Elettra Tech pvt Ltd	30

27.04.24	Mini Project Contest 2024 	S.Ramya, Senior Embedded Engineer, A.S.Karthikeyan Advanced Embedded Engineer, Flight Management Systems, Honey well Technology Solutions.	66
09.05.24	Webinar - MATLAB grader	Math works ARK	12
21.05.24	Architectural Thinking Webinar	r.ChandranathMalliAmarnath Infrastructure Architect- IBM CIO	20
18.06.24 to 22.06.24	Problem Solving ,Modelling and Simulation Tools for Electronics and Communication Engineering 	Ms.NidhiMariswamy, Sr.ApplicationEngineeri,M/S TETCOS LLP, Bangalore , Dr.SwethaAmitEntuple technologies, Bangalore ,&Dr.VivekAshokan, Regional Manager ARK Information Pvt.LtdChennai,Mr.Afsal, Sr.ApplicationEngineeri,ARK Information Pvt.Ltd Chennai, Mr.GowthamRajmohan, Sr.ApplicationEngineeri,ARK Information Pvt.Ltd Chennai,	28

Staff Achievements/Recognition / Honours

Name and Designation of the Staff Member	Achievements of Staff/Recognition/ Honors	Date/Place
Dr. V. Kejalakshmi, HOD / ECE	NPTEL SPOC Award	2024
Dr. V. Kejalakshmi, HOD / ECE	World Scientist & University in India Rankings-AD Scientific Index	2024
DR.N.Janakiraman, Prof./ECE	World Scientist & University in India Rankings-AD Scientific Index	2024
Dr.P.Karpagavalli ASP/ECE	World Scientist & University in India Rankings-AD Scientific Index	2024

Guest Lectures / Expert Talks Organized

S. No	Name of the Speaker	Topic	Organization	Institution	Date
1	Mr.S.K.Sanjay RAJ	Recent trend in IT	Reccsar pvt ltd madurai	K.L.N college of Engineering	16.02.2024

2	Mr. Ajmeerr Kaja Mohideen, Advisory	Awareness on Azure Cloud Computing	Tarcin Robotic LLP, Madurai	K.L.N college of Engineering	26.02.24
3	Ms. P. Janani Digital marketing specialist	Awareness about Digital Marketting	Adroits Digital, chennai	K.L.N college of Engineering	25.03.24
4	Ms.Anbumathi, Founder of resources life sciences & Head – business strategiesE	Guiding student projects using design thinking	Inerma medical devices, Chennai	K.L.N college of Engineering	10.05.24
5	Mr.Chandranath Malli Amarnath Infrastructure Architect	Expert Talk on Cloud computing	IBM CIO	K.L.N college of Engineering	17.05.24
6	Mr.R.Bhuvanesh Babu, Member Technical Staff	Interview Aptitude for C Programming Language	ZOHO	K.L.N college of Engineering	18.05.24

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
S RAVISANKAR	CLOUD COMPUTING	JAN-APR 2024	NPTEL	ELITE
KUMARESH P S	CLOUD COMPUTING	JAN-APR 2024	NPTEL	SUCCESSFULLY COMPLETED

NPTEL Online Certification Courses (Students)

S.No.	Name of the Student	Year	NPTEL Course Name	Duration	Award (Elite/Silver/Pass)
1	C NARESH KUMAR	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
2	PRAVEEN A	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
3	G NATESAN	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
4	SRI SHASTI A P	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER

5	PRASHANNAKUMAR R B	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE+SILVER
6	VIJI MAI G S	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
7	YASHWANTHINI R M	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
8	RAVEENA R	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
9	SAM STEPHEN D	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE+SILVER
10	SANTHIYA R	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
11	SHAJI NISHA S	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
12	SIVA PRASAD C	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+GOLD
13	SHRI VARSHINI M	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
14	SIVA M	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
15	SOWMIYA N N	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
16	VIGNESH K S	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
17	SURYA	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
18	VIMALATHITHAN B	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE+SILVER
19	M YAZHIN	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
20	TARINISRI T G	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE+SILVER

21	THAIYALNAYAKI A	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
22	VENKATESH J M	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
23	N U THEJAS HARI	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE+SILVER
24	ZIPPORAH ANITA LICY A W	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
25	A J SNEGHA	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
26	V R BHAVANI	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
27	M KARPAKA SHREE	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
28	KIRUTHICK RAJ B J	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	ELITE
29	RAMSURYA K R B	2024	Introduction To Industry 4.0 And Industrial Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
30	PRAVEEN A	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
31	PRASHANNAKUMAR R B	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
32	SHAJI NISHA S	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
33	SHRI VARSHINI M	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
34	N R PRASANNA	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
35	SHARMILA T	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
36	LIBIKAMAI T G	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
37	ABARNA B	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
38	SABARISH BABU T G	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
39	AGSHAYA D	2024	Introduction To Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
40	DIVYASHRI	2024	Introduction To Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED

41	NIDHISH RAM V	2024	Introduction To Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
42	S SARAVANAKUMAR	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
43	ABINAYA R	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
44	JOEL JOSEPH J	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
45	SRI SHASTI A P	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE+SILVER
46	JOSHIGA S	2024	Introduction To Internet Of Things	JAN-APR2024	SUCCESSFULLY COMPLETED
47	SRI VAGEESWARI GAYATHRI V	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
48	VIJI MAI G S	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
49	PRIYA DHARSHINI T G	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
50	SABARISH BABU T G	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
51	VIGNESH M	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE
52	KEERTHIGA S	2024	Introduction To Internet Of Things	JAN-APR2024	ELITE

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the student	Title of the event	Competition	Achievement / Prize	Organized by	Year
1.	T.G. Tarinisri	Workshop (IPC)	Workshop	Participated	K.L.N.C.E	2024
2.	Vishal M	National Science Day Quiz (ISTE)	Quiz	Participated	K.L.N.C.E	2024

3..	Maharajan A, Reethika J A, Divyavahini S M G, Kavin Nishanthini R, Libikamai T G, Kavya K, Yooghasurya V S, Muthu Pavithira K, Advaith Srilahari M P, Adeesh M R, Roja M, Naveena M, Ida Persi R, Ragadeepa M, Ragcha T R K, Thangapushpa B, Deepthi I, Nithish Kumar P, Yogeshwaran E, Maxin J, Soundharyalakshmi N S, Haripriya C, Shyamala Sri N, Shangamithra V K, Sweta, Illakiya K, Harrini M	Technozare- 2k24	Project Contest	Participated	K.L.N.C.E	2024
4.	Vishal M, Thejas Hari NU	Project NextGen	Project Contest	Won – I Prize	K.L.N.C.E	2024
5.	Thejas Hari NU	National Day Celebration	Project Contest	Won – I Prize	K.L.N.C.E	2024
6.	Tarini Sri T.G, Sri Shasti A P, Saravanan K R, Shaji Nisha S, Vignesh M, Vishal M	National Day Celebration	Project Contest	Participated	K.L.N.C.E	2024
7.	Deepthi I	KLNCESH A IIPC	KLNCESH A	Won – II Prize	K.L.N.C.E	2024
8.	N.V. Thejas Hari	Project Presentation	Project Presentatio n	Participated	Kalasalingam Academy	2024
9.	Thejas Hari N.U, Tarinisri T G, Ashwin Kumar M, Joshiga S, N Al Mohammad Khaleel Ur Rahmaan, Visggghal M	Project Presentation (IETE)	Project Presentatio n	Participated	Velammal College of Engg& Tech	2024
10.	Ayyanar Anand.G Aakash.S.M Bhargav Abinesh.C Dheeraj Charan.B	Mini project contest	Project Contest	Won - I Prize	K.L.N.C.E	2024
11.	Nandhini.B Nandhini.R Maxin.J	Mini project contest	Project Contest	Won - I Prize	K.L.N.C.E	2024

12.	Thangapushpa.B Sai Pragathi.R	Mini project contest	Project Contest	Won - I Prize	K.L.N.C.E	2024
13.	Deekshina.S Deepthi.I Asmath Haseena.N	Mini project contest	Project Contest	Won - II Prize	K.L.N.C.E	2024
14.	Kavin Nishanthini.R Kavya.K Lekha Sri.S	Mini project contest	Project Contest	Won - II Prize	K.L.N.C.E	2024
15.	Yogeshwaran.G.R Prasath.M Yoghasurya.V.S	Mini project contest	Project Contest	Won - II Prize	K.L.N.C.E	2024
16.	Aadhavan.S Hariharan.K.S Alagesan.M Gokul Kathiravan.S	Mini project contest	Project Contest	Participated	K.L.N.C.E	2024
17.	Bramma Kannan.M Anandh.S.J Abinesh.M Dhiyanesh Sundar.C	Mini project contest	Project Contest	Participated	K.L.N.C.E	2024
18.	Bala Murugan.S Dinesh Raj.S Hari Vignesh.M	Mini project contest	Project Contest	Participated	K.L.N.C.E	2024
19.	Agshaya.D Ida Persi.R Harini.B	Mini project contest	Project Contest	Participated	K.L.N.C.E	2024
20.	Aadeessh.M.R Arshath Bashil.L Hariharasudhan.M	Mini project contest	Project Contest	Participated	K.L.N.C.E	2024

Industrial Visits

Year/Sem	Date	Industry Visited
III year	22.02.2024	IPRC Mahendragiri (Tirunelveli District) 

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

1. Publications in International/National Journal

1. Mrs.K.Vanitha Mani, S.Jeyasudha, D.C.Kavya Nandhini, G.P.Kiruthiga, M.Sridevi, An Intelligent Chatbot System For College Website, International Research Journal of Engineering and Technology (IRJET) ,Volume: 10 ,03 March 2024
2. Usharani K ,Career guidance application for students – AI assisted, Journal of Science Technology and Research (JSTAR) , Volume No.5, Issue No.1 (2024)
3. Mrs.R.Kirubahari, P.Kiruthika, S.Lakshita, J.M.Namritha Shree ,An Enhancing Movie Recommendation System Using Hybrid Models , International Research Journal of Engineering and Technology (IRJET) ,Volume: 10 ,03 March 2024
4. Mrs.D.Thangamari, Enhancing the Safety of Milling Machines through Machine Condition Monitoring with Graphical System Design Programming Software, Alochana Journal, Volume13, 6 June 2024
5. Mr.J Sulthan Alikhan, Dr.S.Miruna Joe Amali, Dr.R Karthick, Deep Siamese domain adaptation convolutional neural network-based quaternion fractional order Meixner moments fostered big data analytical method for enhancing cloud data security, Network: Computation in Neural Systems, 11 June 2024
6. Dr.S.Miruna Joe Amali , An efficient PCCM masking scheme for PAPR reduction and encryption in OFDM-VLC system, Telecommunication Systems, Volume 87, 24 June 2024
7. Mrs.Yoheswari S, Optimized Secure Cloud Storage Using Attribute-Based Keyword Search ,Journal of Science Technology and Research (JSTAR) , Volume No.5, (2024)
8. Mrs.Yoheswari S ,Optimized Cardiovascular Disease Prediction Using Machine Learning Algorithms, Journal of Science Technology and Research (JSTAR) , Volume No.5, (2024)
9. Mrs.Yoheswari S ,Enhanced Sla-Driven Load Balancing Algorithms For Data Center Optimization Using Advanced Optimization Techniques, Journal of Science Technology and Research (JSTAR) Volume No.5, (2024)

Publications in International/National Conference

1. U. Balaji, T.S.P. Ksheerabdinath, S.S. Barath, D. Thangamari, R. Kirubahari, “Streamlining Multi-Modal Coal Transport: An Efficient Tracking Solution”, International Conference on Sustainable Development in Engineering and Technology (ICSDET’24), Organized by K.L.N College of Engineering, Madurai, April 2024.
2. V. Karpagam, Dr. P. Premkumar, G. Rajeswari, “Agricultural Crop Prediction and Recommendation Using KNN and Logistic Regression”, International Conference on Sustainable Development in Engineering and Technology (ICSDET’24), Organized by K.L.N College of Engineering, Madurai, April 2024.
3. D. Thangamari, R. Kirubahari, T.H. Akshaya, S.S. Harini, C.S. Jeyakarthika, K. Haripriya, “Automated Smart Park: Advancing Parking Solutions with Intelligent System”, International Conference on Sustainable Development in Engineering and Technology (ICSDET’24), Organized by K.L.N College of Engineering, Madurai, April 2024.
4. R.S. Nivetha, K.S. Keerthiga, S. Venkata Lakshmi, “Unlocking Industry 4.0 Potential: Exploring UAV Integration with IoT, AI and Automation”, International Conference on Sustainable Development in Engineering and Technology (ICSDET’24), Organized by K.L.N College of Engineering, Madurai, April 2024.

5. K. Nithilan, S. Venkata Lakshmi, "Bridging Technology with Humanity for Sustainable Progress", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
6. K. Usharani, R. Karthick Raja, K.K. Pradheep, K.S. Sundares, "News Text Summarization Based on Multi Features using RankSVM and Naive Bayes", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
7. S. Yoheswari, K. Vanitha Mani, "Enhancing Cyber Security in Healthcare: A Novel Approach Using Medical Images", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
8. Dr. R. Lakshmi, "Exploring Multimodal Sentiment Analysis and Emotion Recognition through Semantic Word Relationships", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
9. Dr. R. Lakshmi, "Collaborative Learning Performance Enhancement Through Stochastic Gradient Descent Methods", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
10. S. Maria Sobana, K. Senthil Kumar, N.G. Sreenikethan, O.R.P. Vishnudarrshan, "Network Security Enhancement using Echo State Networks (ESN) for Attacker Detection", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
11. N. Gajalakshmi, M. Kانشa, A. Maadesh, P. Mukil, T.V. Pranav Devesh, "SmartAgroTech: Revolutionizing Farming Through AI-Assisted Crop Yield Estimation", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
12. S. Sangamithra, S. Vengatesh, M.S. Sarvesvar, M. Vijay Adhithyan, "Forest Fire Detection using Deep Learning", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
13. P. Divya Bharathi, M. Nasreen, M. Monisha Shree, "Hybrid CNN-LSTM Model for Comprehensive Freshness Analysis in Meat", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
14. R.K. Lakshmi Rossini, S.K. Neela, S. Gayathri, V. Karpagam, "Fake Health News Detection Using Machine Learning and NLP", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
15. K.M. Pravin, K.J. Praveen Kumar, S.J. Praveen Narayanan, Dr. S. Subashini, "Efficient Secure Cloud with a Hybrid of Decomposition and Deceptive Cipher Methodologies", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
16. S. Hariraghav, L.P.G. Amethesh, G.K. Gopinath, S. Blesson Francis, J. Sulthan Alikhan, "Opticode: A Dynamic Learning Environment for Programming Proficiency Using RAG and LLM Models", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
17. D. Arun Prabu, B. Bavan Kumar, S. Gokulesh, K. Harihara Velan, D. Pravin Kumar, "Crop Type and Yield Prediction based on Soil Analysis", International Conference on Sustainable Development in Engineering and Technology (ICSDET'24), Organized by K.L.N College of Engineering, Madurai, April 2024.
18. D. Pravin Kumar, D. Arun Prabu, B. Bavan Kumar, S. Gokulesh, K. Harihara Velan, "Crop Type and Yield Prediction based on Soil Analysis", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
19. M. Arul Selvan, R.G. Ajay Prasad, R. Arunkumar, P. Dinesh Arvind, R. Gopinath, "Face Gesture Recognition in Computer Education and Gaming for Physically Challenged Individuals", Kamaraj

- International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
20. R. Poornima Priyanka, "Enhancing Cyber Security in Smart Home Intrusion Systems through IoT Integration", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 21. D. Thangamari, G.V. Girishmaa, P. Keerthana, M. Mahalakshmi, "Software Defect Prediction and Prioritization Using Machine Learning", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 22. D. Thangamari, K.R. Reshmadharshini, P.G. Soundarya, S.R. Swedha, "Fine Food Grain Classification from UEC-Food-101 Dataset Using Deep Learning", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 23. D. Thangamari, T.K. Kavya, V. Kaviya, S.A. Nanthitha Sri, J.P. Ezhil Bharathi, "Advanced Efficiency and Connectivity: Smart Cities Enhanced by IoT", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 24. K. Usharani, P. Divya Bharathi, J. Monicaa, K.A. Roshni Sri, T. Priyadarshini, "Revolutionizing Healthcare: Advancements in Diagnosis and Beyond", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 25. G. Rajeswari, K. Avanthika, B. Hemapriyadarshini, N. Kaniyamudhu, "A Robust Cyber Bullying Detection System Using XGBoost Algorithm", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 26. Dr. R. Lakshmi, J.J. Gowtham, V.S. Dhanuskumar, "Classification of Student Academic Performance Using Machine Learning Algorithms", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 27. R. Poornimapriyanka, P. Aarthi, P. Apurva, K. Deepadarshni, "E-Commerce Customer Churn Prediction Using Deep Learning", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 28. R. Kirubahari, J. Saakira, P. Sneha Prakash Patil, "CatBoost-Driven Machine Learning Algorithm for Predicting Asthma Risk Levels", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 29. S. Maria Sobana, S. Sangamithra, Y. Karthick, Y. Om, G. Sangaya, Srinivaas, "Authentication and Verification of Social Networking Accounts Using Blockchain Technology", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 30. S. Sangamithra, S. Maria Sobana, P.K. Srinivasan, K.S. Vimal, T.S. Vishnuprasanna, "Fraud Prediction in Vehicle Insurance Using Machine Learning Algorithms", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 31. S. Yoheswari, K.R. Ramanathan, P.S. Vigneshwaran, T. Rajan, "Effective Hacking Website Prediction for User Security", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 32. K. Vanitha Mani, M. Shalini, K. Vasundhara, B.P. Vidya, "Thyroid Prediction Using Gated Recurrent Unit (GRU) Neural Networks", Kamaraj International Conference on Recent Trends in Science,

- Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
33. K. Vanitha Mani, K. Usharani, L. Adhithyaram, K.B. Harish Raj, R.D. Jivithesh Harshaa, "Utilizing LSTM Networks in Machine Learning for Dynamic Detection of Fake Videos", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 34. D. Pravin Kumar, M. Sachin Vignesh, G. Sai Venkatesh, N. Roshan, "Human Following Trolley", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 35. K. Usharani, B. Sridharsan, R. Vignesh Kumar, K. Sathish Pandi, S. Ravi Bharathi, "Career Guidance Application for Students – AI Assisted", Kamaraj International Conference on Recent Trends in Science, Engineering and Technology (KIRSET'24), Organized by Kamaraj College of Engineering and Technology, Virudhunagar, April 2024.
 36. G. Rajeswari, T.S. Sundhar, G. Tamizhamuthan, K.G. Vishnukumar, "COA-Based Stable Clustering Algorithm for VANET", International Conference on Emerging Trends in Engineering and Technology (ICETET'24), Organized by Pandian Saraswathi Yadav Engineering College, Sivagangai, April 2024.
 37. S. Yogeswari, "Automated Revisit Structural Brain Tumor Segmentation Framework Using Machine Learning", International Conference on Hybrid and Advanced Technologies 2024, Organized by QIS College of Engineering and Technology, Ongole, April 2024.
 38. M. Sasikala, G.K. Govindan, W. Ebin Rijo, L. Athithan, "Biomass Estimation Using Machine Learning in Google Earth Engine Platform", Emerging Trends in Engineering and Technology (ETET'24), Organized by Mangayarkarasi College of Engineering, Madurai, April 2024.
 39. Dr. R. Karthick, M.K. Ragavendra, R. Akash, K. Gokulakrishnan, "Enhancing Temperature Forecasting Using Deep Learning Approach", Emerging Trends in Engineering and Technology (ETET'24), Organized by Mangayarkarasi College of Engineering, Madurai, April 2024.
 40. S. Yogeswari, "Distorted Face Reconstruction Using 3D CNN", Emerging Trends in Engineering and Technology (ETET'24), Organized by Mangayarkarasi College of Engineering, Madurai, April 2024.
 41. R. Kirubahari, "Secure Online Voting System", National Conference on Recent Trends in Computer Science and Engineering (NCRTCS 2024), Organized by SRM Madurai College for Engineering and Technology, Madurai, April 2024.
 42. D.Pravin Kumar ,22 October 2024, 9 th Internatinal Conference on Computing sciences (ICCS-2024) International - 3 Vivekan.O.P Amesh.J Usha Rani Automated car damage recognition and cost estimation using CNN International Conference on :Engineering Horizons: Innovation, Advancements and Sustainability (ICON:EHIAS'25) 16-17 May 2025
 43. R.Nivethitha S.Maria Sobana S.Sangamithra ,A Hybrid-Classifer for Plant Syndrome Analysis Using Machine Learning International Conference on :Engineering Horizons: Innovation, Advancements and Sustainability (ICON:EHIAS'25) 16-17 May 2025

Books / Book Chapters Published

S. No	Name of the Author(s)	Title of the Book	Chapter	Publisher	ISBN	Year
1	P. Divya Bharathi	A Comprehensive Investigation of Underwater Disaster Prediction Using Machine Learning Algorithms	7	IGI Global Book Chapter	DOI - 10.4018/979-6-3693-3562-4	may 2024

Patents Filed / Published / Granted

S. No	Name of the Inventor(s)	Title of the Patent	Patent Number	Status	Year
1	Mr. Arul Selvan M	Health monitoring robot	6345672	Granted	2024
2	Dr.R.Karthick	Adaptive resource	202441036588	Published	2024

		provisioning in cloud environments Using Data Mining And Machine Learning			
3	Dr.R.Karthick	Innovative Approaches In Surface Chemistry For The Design of functionalized surfaces with tunable properties	202421036585	Published	2024
4	Dr.S.Balamurugan, Dr.R.Karthick	Multi-Layered Cyber security Framework Using Machine Learning Algorithms	202441027153	Published	2024
5	Mrs.M.Sasikala, Dr.R.Karthick	Augmented Reality Curriculum Enhancement tool for supporting National Education Policy Goals	202441027149	Published	2024
6	Dr.P.PremKumar, Dr.S.Subashini, Mrs.S.Yoheswari, Mrs.K.Usharani, Mrs.P.Divya Bharathi, Mrs.R.Poornima Priyanka	IoT based cyber security data Analytic Device	412047-001	Granted	2024
7	Mr.D.PravinKumar, Mr.J.SulthanAlikhan, Mrs.N.Gajalakshmi, Mrs.K.Vanitha Mani, Ms.S.Sangamithra, Mrs.S.Maria Sobana	RFID And IOT Based Animal Tracking Strap	411798-001	Granted	2024
8	Dr.R.Karthick	Predictive data analytics framework for big data Management In Cloud Environments	202441033677	Published	2024
9	Dr.R.Karthick	Multi-Layered Cyber security Framework Using Machine Learning Algorithms	202441027153	Published	2024
10	Dr.S.MirunaJoeAmali, Mrs.S.VenkataLakshmi, Mrs.V.Karpagam, Mrs.R.Kirubahari, Mrs.G.Rajeswari, Mrs.D.Thangamari	Smart vegetable grading machine Using Deep Learning	411398-001	Granted	2024
11	Dr.R.Karthick	Efficient Integration of Light weight PMSM Technology In Hybrid Electric Vehicles for enhanced performance and Range optimization	202441028373	Published	2024
12	Dr.R.Karthick	Deep learning approaches with built-In risk Management for high-Fidelity share market prediction	202441028767	Published	2024
13	Dr.R.Karthick	Nanotechnology-Based anti-Clogging mechanism for Borewell Filters	202441035592	Published	2024
14	Dr.R.Karthick	Pyrolysis-Based plastic	202441032277	Published	2024

		waste to energy conversion System			
15	Dr.R.Karthick	Earth quake early prediction system with deeplearning And IOT integration	202441029739	Published	2024
16	Mr.D.Pravin Kumar, Mr. Arul Selvan M	AI-Based Range Prediction for Electric Vehicles to Improve User Experience	202441019431	Published	2024
17	Dr.R.Karthick	Optimizing Pentanoic Acid Concentrations In Bio degradable plastic textiles through machine learning Predictions	202441028784	Published	2024
18	Dr.R.Karthick	AI -Enhanced english language learning platform	202441033205	Published	2024
19	Dr.R.Karthick	Mystical self-Healing bricks: AI-Infused Materials that repair cracks autonomously	202441032278	Published	2024
20	Dr.R.Karthick	Augmented reality curriculum enhancement tool for Supporting National Education Policy Goals	202441027149	Published	2024
21	Dr.R.Karthick	Drone-Assisted bio-Organic spraying system for Sustainable Weed Control In Agriculture	202411015493	Published	2024
22	Dr.R.Karthick	Vehicle-To-Grid integration: Advanced energy management System For Electric Vehicles Using Deep Learning	202441015530	Published	2024
23	Dr.R.Karthick	Deep learning-Driven cloud platform for intelligent English Literature Analysis	202441013663	Published	2024
24	Dr.R.Karthick	AgroAI-Spray: Autonomous pest management system Integrating IOT And Machine Learning	202441027151	Published	2024
25	Dr.R.Karthick	Intelligent pesticide application system for sustainable Agriculture Using Machine Learning	202411012993	Published	2024
26	Dr.R.Karthick	Artificial intelligence based virtual reality therapy Sessions For Mental Health Treatment	202441021994	Published	2024
27	Dr.R.Karthick	Dynamic Grid Interaction Protocol Enhanced With Artificial intelligence for electric vehicle integration	202441029722	Published	2024
28	Mr. Arul Selvan M	Artificial intelligence based pre cancer Diagnosis System And Alert Mechanism	202441007415	Published	2024
29	Dr.R.Karthick	Machine learning-Enabled fast charging System For Electric Vehicles With IOT Integration	202441011948	Published	2024

30	Dr.R.Karthick	AI-Driven statistical analysis of social media data for Enhanced Event Promotion	202421022611	Published	2024
31	Dr.R.Karthick	A sensor - Based walking aid enhanced with artificial Intelligence For Elderly Individuals	202441028375	Published	2024
32	Dr.R.Lakshmi	Cluster Electric Vehicle Charging Behavior optimization method based on Deep Reinforcement Learning	202411004522	Published	2024
33	Dr.R.Karthick	AI based system for providing a multi-Dimensional human Resource Allocation Adviser	202441011184	Published	2024
34	Dr.R.Karthick	Smart IOT necklace for women's safety and protection	202441019961	Published	2024
35	Dr.R.Karthick	Artificial intelligence-Based news quick report Generation Method And Device	202441009710	Published	2024
36	Dr.R.Karthick	Integrated Cooling System For High Temperature Operation of EV fuel cells	202431017151	Published	2024
37	Dr.R.Karthick	Emergency Charging Service For Electric Vehicles with IOT Based Energy Recycling	202441004200	Published	2024
38	Dr.R.Karthick	Hyper tension elderly exercise prescription Recommendation method based on deeplearning	202441017150	Published	2024

Short term courses/seminar/symposium attended by the Faculty Members:

Name and Designation of the Faculty Member	Seminar / Workshop / Course Attended	Date / Place
S.Mario Sobana	FDP – Block Chain Technology	08.01.2024 – 12.01.2024 / EXCELR Raising Excellence
S. Yoheswari	FDP – Block Chain Technology	08.01.2024 – 12.01.2024 / EXCELR Raising Excellence (Online)
Ms.S.Sangamithra	FDP – Block Chain Technology	08.01.2024 – 12.01.2024 / EXCELR Raising Excellence
Dr.S.Subashini	FDP – Building Advanced Data Analytics Applications with Cloud	08.01.2024 – 12.01.2024 / Edunet Foundation
Mrs.P.Divya Bharathi	FDP – Building Advanced Data Analytics Applications with Cloud	08.01.2024 – 12.01.2024 / Edunet Foundation
Dr.S.Subashini	FDP – Data Science for Health Care Applications	22.01.2024 – 24.01.2024 / SRM, Madurai
R.Poornima Priyanka	FDP – Emerging Technologies in Computer Science	22.01.2024 – 27.01.2024 / Eswari Engineering College, Chennai
Mrs.P.Divya Bharathi	STTP – AI/ML and Data Science for Industry 4.0	29.01.2024 – 02.02.2024 / NITTTR, Chandigarh

Dr.S.Subashini	FDP – Business Analytics	05.02.2024 – 09.02.2024 / ExcelR Edtech Pvt. Ltd
Mrs.K.Usharani	FDP – Business Analytics	05.02.2024 – 09.02.2024 / EXCELR Raising Excellence
S.Mario Sobana	FDP – Business Analytics	05.02.2024 – 09.02.2024 / EXCELR Raising Excellence
Ms.S.Sangamithra	FDP – Business Analytics	05.02.2024 – 09.02.2024 / EXCELR Raising Excellence
S. Yoheswari	FDP – Business Analytics	05.02.2024 – 09.02.2024 / EXCELR Raising Excellence (Online)
Mrs.S.Venkata Lakshmi	FDP – Generative AI and Emerging Trends in Wireless Communication Systems	05.02.2024 – 09.02.2024 / Heritage Institute of Technology
V.Karpagam	FDP – Generative AI Emerging Trends in Wireless Communication Systems	05.02.2024 – 09.02.2024 / Heritage Institute of Technology
G.Rajeswari	FDP – Generative AI and Emerging Trends in Wireless Communication Systems	05.02.2024 – 09.02.2024 / Heritage Institute of Technology
Mrs.K.Vanitha Mani	FDP – Business Analytics	05.02.2024 – 09.02.2024 / EXCELR Raising Excellence
D.Pravin Kumar	Industrial Expo on Electric Vehicle & Electric Storage System	10.02.2024 / Chennai Trade Centre
Ms.S.Sangamithra	FDP – Artificial Intelligence and Machine Learning	12.02.2024 – 17.02.2024 / Anna University & Kamaraj College of Engineering
Mrs.K.Vanitha Mani	FDP – Artificial Intelligence and Machine Learning	12.02.2024 – 17.02.2024 / Anna University
V.Karpagam	FDP – Data Science using Python	19.02.2024 – 23.02.2024 / NITTR
Dr.K.Karthick	ICTACT FDP – Android Basics with Compose	19.02.2024 – 23.02.2024 / ICT Academy
S.Mario Sobana	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
Ms.S.Sangamithra	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
V.Karpagam	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
Dr.R.Karthick	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
Mrs.M.Sasikala	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
G.Rajeswari	FDP – Emerging Technology in Artificial Intelligence	19.02.2024 – 24.02.2024 / Jeppiaar Institute of Technology
Mrs.S.Venkata Lakshmi	Writing Review Papers with Visual Analytics	24.02.2024 – 25.02.2024 / MBien Analytica
Mrs.S.Venkata Lakshmi	TensorFlow for Machine Learning	26.02.2024 – 01.03.2024 / ICTACT
Dr.R.Lakshmi	Virtual FDP – Navigating the Frontiers of AI	04.03.2024 – 08.03.2024 / St. Peter's Institute of Higher Education and Research
R.Poornima Priyanka	Virtual FDP – Navigating the Frontiers of AI	04.03.2024 – 08.03.2024 / St. Peter's Institute of Higher Education and Research
Dr.R.Lakshmi	National Faculty Program on Business Analytics	05.03.2024 – 09.03.2024 / AISSMS College of Engineering
Dr.S.Subashini	FDP – Data Visualization using Tableau	01.04.2024 – 05.04.2024 / ExcelR Edtech Pvt. Ltd

Mrs.K.Usharani	FDP – Data Visualization with Tableau	01.04.2024 – 05.04.2024 / EXCELR Raising Excellence
S. Yoheswari	FDP – Data Visualization with Tableau	01.04.2024 – 05.04.2024 / EXCELR Raising Excellence
D.Pravin Kumar	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
V.Karpagam	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
Mrs.S.Venkata Lakshmi	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
Dr.R.Karthick	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
R.Kirubahari	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
Mrs.M.Sasikala	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
G.Rajeswari	FDP – Prompt Engineering	01.04.2024 – 05.04.2024 / Velammal College of Engineering and Technology
R.Poornima Priyanka	FDP – Recent Technological Trends	01.04.2024 – 06.04.2024 / Eswari Engineering College
Mrs.S.Venkata Lakshmi	FDP – Exploring Cutting Edge Development in NLP	20.05.2024 – 24.05.2024 / VIT
Mrs.P.Divya Bharathi	LTTP – Trade AI to Gen AI	10.06.2024 – 15.06.2024 / CMR Institute of Technology

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No.of Participants
17.03.2025	Google Developer Club – State Level Project Expo	Vijay, Business Development Regional Head	150
02.04.2025	State Level Symposium – ZEIGEN 2K25	Mrs. Harshini, Team Head, NetApp Bangalore	112

Staff Achievements/Recognition / Honours

Name and Designation of the Staff Member	Achievements of Staff/Recognition/ Honors	Date/Place
DR.RLakshmi prof\CSE	Translator for NPTEL tran4808	2024
MR.Arul Selven AP\CSE	Best co-Ordinator for ICTACT	2024

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conductedby	Award (Elite/Silver/Pass)
Dr. S. Miruna Joe Amali, Prof./Head	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver
Dr. P. Premkumar ASP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver
Dr. S. Subashini, ASP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver 82%
Mrs, G. Rajeswari, AP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver 82%

Mrs. V. Karpagam ASP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver 85%
Mrs. S. Venkatalakshmi, ASP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Gold 97%
Ms. S. Sangamithra AP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Gold 94%
Mrs. S. Maria Sobana, AP/CSE	Introduction to Internet of Things Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver 85%
Mrs. S. Yoheswari AP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Successfully Completed 69%
Mr. M. Arul Selvan, AP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Gold 91%
Mrs. K. Usharani, AP/CSE	Introduction to Internet of Things	12 Weeks	NPTEL	Elite+Silver 85%

Industry Collaboration / MoU

S.No	Organization Name	Purpose of MoU	Department	Year
1	Infosys – Campus Connect Program	Industry–academia partnership to enhance software development skills and improve employability	Computer Science and Engineering	2024
2	ICTACT (ICT Academy of Tamil Nadu)	Skill development, faculty training, and industry-oriented certification programs	Computer Science and Engineering	2024

Student / Faculty Project Details (Mapped with SDG Goals)

S. No	Title of the Project	Name of Student(s) / Faculty	Guide / Supervisor	Brief Description	Mapped with SDG Goal	Year
1	Decentralized Disk Space Allocation Using Blockchain Technology on Cloud Environment	Amirtha Varshini M.P, Immaculate Jochiya S, Jayaa Dharsini D.R, Keerthana P, Mahalakshmi M	Dr. P. Prem Kumar (Associate Professor)	Blockchain technology is used to allocate and manage disk space securely in cloud environments without relying on a centralized authority.	SDG 9 – Industry, Innovation and Infrastructure	2024
2	Classification of Student Academic Performance Using Machine Learning Algorithms	Dhanuskumar V.S, Gowtham J.J	Dr. R. Lakshmi (Professor)	Machine learning algorithms are applied to analyze and classify student	SDG 9 – Industry, Innovation and Infrastructure	2024

				academic performance for improving educational analysis.		
3	Government Info-Bot	Nandhakumaran H, Nikhilesh Pranav M S, Nithishkumar K K, Prasanna Krishna A S	Dr. S. Subashini (Associate Professor)	A chatbot system developed to provide quick and easy access to government schemes, services, and information.	SDG 8 – Decent Work and Economic Growth	2024
4	Enhancing DDoS Detection in IoT Systems Through Boosting Techniques	Karuppuraja S, Mohan Raj P, Lavanesh Mahendran T M	Mrs. R. Poornima Priyanka (Assistant Professor)	Uses boosting-based machine learning techniques to detect Distributed Denial of Service (DDoS) attacks in IoT networks more efficiently.	SDG 9 – Industry, Innovation and Infrastructure	2024
5	Particle Swarm Optimization for 5G and Beyond	Mahaganesh M, Muthupandi S, Nikesh M	Mrs. N. Gajalakshmi (Associate Professor)	Particle Swarm Optimization algorithm is used to enhance performance and efficiency in 5G and future wireless communication systems.	SDG 9 – Industry, Innovation and Infrastructure	2024
6	Hybrid CNN Model for the Classification of Wireless Capsule Endoscopy Images for Bleeding or Normal Diagnosis	Raj Kumar R K, Rajkumar M, Ramachandran M	Mrs. P. Divya Bharathi (Assistant Professor)	A hybrid Convolutional Neural Network (CNN) model is used to analyze medical images and detect bleeding in capsule endoscopy diagnostics.	SDG 3 – Good Health and Well-Being	2024

NPTEL Online Certification Courses (Students)

S.No	Name of the Student	Year	NPTEL Course Name	Duration	Award
1	Sachin Vignesh M	IV	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks	Successfully Completed
2	Sornalatha M	III	Privacy and Security in Online Social Media	12 weeks	Elite

3	Ramana C	III	Privacy and Security in Online Social Media	12 weeks	Elite
4	K A Roshni Sri	III	Privacy and Security in Online Social Media	12 weeks	Elite
5	Sasikumar P	III	Cyber Security and Privacy	12 weeks	Elite
6	Velmathi M	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
7	Sivaprakash S	III	Cyber Security and Privacy	12 weeks	Successfully Completed
8	Sharukeshavalingam A	III	Privacy and Security in Online Social Media	12 weeks	Elite
9	Swastika R A	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
10	K A Roshni Sri	III	Introduction to Japanese Language and Culture	12 weeks	Elite+Silver
11	Piyush Kumar D	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
12	Rishi Priya B J A	III	Privacy and Security in Online Social Media	12 weeks	Elite
13	K Thendral Devi	III	Privacy and Security in Online Social Media	12 weeks	Elite
14	Vallimayil P	III	Privacy and Security in Online Social Media	12 weeks	Elite
15	Veda Priya S	III	Privacy and Security in Online Social Media	12 weeks	Elite
16	Yuvan Sankar S K G	III	Privacy and Security in Online Social Media	12 weeks	Elite+Silver
17	P G Soundharya Sri	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
18	Shirapti Nath C R	III	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks	Elite+Silver
19	Shirapti Nath C R	III	Privacy and Security in Online Social Media	12 weeks	Elite
20	T S P Ksheerabdinath	III	Privacy and Security in Online Social Media	12 weeks	Elite
21	Suganyadevi K S	III	Privacy and Security in Online Social Media	12 weeks	Elite
22	P M Vasanth Raj	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
23	Priyanka R P	III	Privacy and Security in Online Social Media	12 weeks	Elite
24	Sakthi Aashitha N S	III	Privacy and Security in Online Social Media	12 weeks	Elite
25	Sakthijothi T S	III	Privacy and Security in Online Social Media	12 weeks	Elite
26	T Priyadharshini	III	Privacy and Security in Online Social Media	12 weeks	Elite

27	Viswa M	III	Privacy and Security in Online Social Media	12 weeks	Elite
28	Abishek M	III	Privacy and Security in Online Social Media	12 weeks	Elite
29	T H Akshaya	III	Privacy and Security in Online Social Media	12 weeks	Elite
30	Barath S S	III	Privacy and Security in Online Social Media	12 weeks	Elite
31	Harini S S	III	Privacy and Security in Online Social Media	12 weeks	Elite
32	K Haripriya	III	Privacy and Security in Online Social Media	12 weeks	Elite
33	Shree Harinee T G	III	Privacy and Security in Online Social Media	12 weeks	Elite
34	Jeyakarthika C S	III	Privacy and Security in Online Social Media	12 weeks	Elite
35	Vishnu Vardhan K L	III	Cyber Security and Privacy	12 weeks	Successfully Completed
36	Vignesh Babu B K	III	Cyber Security and Privacy	12 weeks	Successfully Completed
37	Shyla Shree M M	III	Privacy and Security in Online Social Media	12 weeks	Elite
38	G Gowri Sakthi	III	Privacy and Security in Online Social Media	12 weeks	Elite
39	Santhosh S A	III	Privacy and Security in Online Social Media	12 weeks	Elite
40	Shyam Sundhar N	III	Privacy and Security in Online Social Media	12 weeks	Elite
41	Swetha	III	Privacy and Security in Online Social Media	12 weeks	Elite
42	Varsha K S	III	Privacy and Security in Online Social Media	12 weeks	Elite
43	Kaviya Vanaraj	III	Privacy and Security in Online Social Media	12 weeks	Elite
44	Ponsree S	III	Privacy and Security in Online Social Media	12 weeks	Elite
45	R R Riduvarshini	III	Privacy and Security in Online Social Media	12 weeks	Elite
46	Jeyasudha S	III	Privacy and Security in Online Social Media	12 weeks	Successfully Completed
47	T K Kavya	III	Privacy and Security in Online Social Media	12 weeks	Elite+Silver
48	Kishore Kumar B P	III	Ethical Hacking	12 weeks	Successfully Completed
49	Shirapti Nath C R	III	Software Conceptual Design	12 weeks	Elite
50	Haarish T S	III	Privacy and Security in Online Social Media	12 weeks	Elite

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the Student	Title of the Event	Competition	Achievement / Prize	Organized by	Year
1	T.T.R Ranganayagi	Water for Peace	State Level	II Prize	The Institution of Engineers (India)	2024
2	J. Yogasri	Teletec'24 – Quiz Mania	State Level	II Prize	Teletec'24	2024
3	P. Sujitha	Teletec'24 – Quiz Mania	State Level	II Prize	Teletec'24	2024
4	R.S. Nivetha	Water for Peace	State Level	I Prize	The Institution of Engineers (India)	2024
5	V. Viswesh Kishan	Techutsav Innohacks'24 – Play with DB & SQL	National Level	I Prize	Techutsav Innohacks'24	2024
6	V. Viswesh Kishan	Techutsav Innohacks'24 – Bug Fixing	National Level	I Prize	Techutsav Innohacks'24	2024
7	S.A. Shobika	Euphoria – Debugging	State Level	II Prize	Euphoria	2024
8	Sreshta Sridhar	Tech Meraki 2K24 – Start Music	State Level	I Prize	Tech Meraki 2K24	2024

Industrial Visits

Year/Sem	Date	Industry Visited
2024 / V	22-03-2024	Tea Museum, Munnar  Tea Museum, Munnar Kannan Devan Hills Kerala India 2024-03-22(Fri) 12:43(PM) 26°C 79°F

DEPARTMENT OF INFORMATION TECHNOLOGY

Publications in International/National Journal

1. **Mrs. P. Ramya**, "Recommendation System using Feature Based Sentiment Analysis", *TANZ Journal*, **Vol. 19, Issue 2, 2024**.
2. **Dr. P. Ganesh Kumar**, "Dynamic Unity VR for Architectural Excellence", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
3. **Dr. G. Ramesh**, "Deepfake Detection using LSTM for Cybersecurity", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
4. **Dr. G. Ramesh**, "Gesture and Voice Recognition for Enhanced Computer Control", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
5. **Dr. S. Ilangovan**, "Lung Cancer Prediction using Inception V3 based CNN on Histopathological Image", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
6. **Dr. S. Ilangovan**, "A Novel Data Mining Algorithm for the Detection of Parkinson's Disease", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
7. **Mr. M. Satheesh Kumar**, "Air Pollution Monitoring System using IoT", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
8. **Mr. M. Satheesh Kumar**, "On-Demand Seamless Peer-to-Peer Portable Assets Renting", *International Journal of Advance Research and Innovative Ideas in Education*, **Vol. 10, Issue 3, 2024**.
9. **Mr. A. Selvaraj**, "Medicine Recommendation System using Cosine Similarity", *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 4, 2024**.
10. **Mr. A. Selvaraj**, "Patient Medicine and Appointment Tracking System using Spring Boot", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
11. **Mrs. S. Vijayasharmila**, "Automated Real Time Street Light Management System", *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 4, 2024**.
12. **Mrs. S. Vijayasharmila**, "Transformative Virtual Training for Industrial Excellence in Automobile Industry", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
13. **Mrs. S. Jeniba**, "Multifaceted Disease Prognosis using Machine Learning Techniques", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
14. **Mrs. S. Jeniba**, "Nutrition Analyzer and Dietary Choice Recommendation using Deep Learning", *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.

15. **Ms. R. M. Suganya**, “Predictive Maintenance for Industrial Equipment using Random Forest Regressor”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 5, 2024**.
16. **Mrs. T. T. Mathangi**, “Sendkrypt: An Application for Secure Ethereum Transaction”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 5, 2024**.
17. **Mrs. T. T. Mathangi**, “URL Based Phishing Website Detection using Integrated Machine Learning Algorithms”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
18. **N. Logamithra**, “Fake News Detection using Logistic Algorithm”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 4, 2024**.
19. **N. Logamithra**, “Melanoma Skin Cancer Detection using CNN Algorithm”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
20. **Mrs. P. Ramya**, “AI Driven Chatbot for Mental Health using Machine Learning”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 4, 2024**.
21. **Mrs. P. Ramya**, “Enhancing Product Authenticity using Blockchain Technology”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
22. **Mrs. P. Ramya**, “Recommendation System using Feature Based Sentiment Analysis”, *TANZ Journal*, **Vol. 19, Issue 2, 2024**.
23. **N. Vishnudevi**, “House Price Prediction using Machine Learning Algorithm”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 4, 2024**.
24. **N. Vishnudevi**, “Gradient of Diabetic Retinopathy using CLAHE”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
25. **P. L. Subramanian**, “Chronic Kidney Disease Prediction with Ensemble Approaches”, *International Journal for Scientific Research & Development* (ISSN: 2321-0613), **Vol. 9, Issue 5, 2024**.
26. **P. L. Subramanian**, “Traffic Analysis Attack for Identifying User’s Online Activities”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
27. **Mrs. I. Muthu Meenatchi**, “Crop Prediction Agricultural Chatbot”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
28. **Mrs. I. Muthu Meenatchi**, “Data Leakage Detection using Data Mining”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
29. **Mrs. K. Rani**, “Road Sign Recognition for Autonomous Vehicles”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 5, 2024**.
30. **Mrs. A. Thirunirai Selvi**, “Client Churn Prediction using Gradient Boosting Classifier”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.

31. **Mrs. T. S. Naga Nandhini**, “Enhanced Resume Parser using Named Entity Recognition in NLP”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.
32. **Mrs. M. Kanimozhi**, “Predictive Analytics for Strengthening Cyber Supply Chain Security Against Threats”, *International Research Journal of Modernization in Engineering Technology and Science* (ISSN: 2582-5208), **Vol. 6, Issue 4, 2024**.

Publications in International/National Conference

1. **Dr. P. Ganesh Kumar**, “Water Quality Prediction on Machine Learning Techniques”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
2. **Dr. P. Ganesh Kumar**, “An Insight View of Communication Protocol for Smart Medical Environment: A Survey”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
3. **Dr. P. Ganesh Kumar**, “Health Sphere: Comprehensive Diagnosis Solution for Predicting Lifestyle Disorders using Machine Learning”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
4. **Dr. G. Ramesh**, “Smart Baby Monitoring System Using YOLO V8 Algorithm”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
5. **Dr. S. Ilangoan**, “LSTM Based New Probability Features using Machine Learning to Improve Network Attack Detection”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
6. **Mr. M. Satheesh Kumar**, “Novel Energy Efficient Routing Protocol for Industrial WSN using Hybrid PSO and ACO with Attack Prediction”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
7. **Ms. R. M. Suganya**, “A Data Mining Perspective of Exploring Global Terrorism Trends”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
8. **Mrs. P. Ramya**, “Enhanced Security Standards for Transmitting Medical Data: Combining Cryptography and Machine Learning”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
9. **Mr. P. L. Subramanian**, “Chronic Kidney Disease Prediction with Ensemble Approaches”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.
10. **Mrs. K. Rani**, “Exploring Cyber Security in Healthcare: A Novel Approach using Medical Images”, *International Conference on Sustainable Development in Engineering and Technology – ICSDET’24*, Organized by K.L.N College of Engineering, Sivagangai, April 2024.

Books / Book Chapters Published

S. No	Name of the Author(s)	Title of the Book	Chapter	Publisher	ISBN	Year
1.	Ganesh kumar P Satheesh kumar M Amudha S.	IoT Simplified A Beginner's Guide	-	LAMBERT ACADEMIC PUBLISHING	ISBN-10 : 6208117275 ISBN-13 : 978-6208117276	2024
2.	Gayathri V Gayathri S Ramya P Santhi Priya B	Machine Learning	-	THE CHARULATHA PUBLICATION		2024

Patents Filed / Published / Granted

S. No	Name of the Inventor(s)	Title of the Patent	Patent Number	Status (Filed / Published)	Granted	Year
1.	Dr. P.Ganesh Kumar	IoT based water fustigation system and method	201741041658	Published	Yes	03-05-2024

Short term courses/seminar/symposium attended by the Faculty Members:

Name And Designation Of The Faculty Member	Seminar/Workshop/Course Attended	Date/Place
Mrs.S.Vijayasharmila, AP/IT	One-Week Online Faculty Development Program on "AI: The Omnipresent Sapient"	24.06.2024 to 28.06.2024 / Kalasalingam Academy of Research and Education
Mr.P.L.Subramanian, AP/IT	Five Days Faculty Development Programme on "Cyber Security: Analytics, Use Cases and Demo"	12.02.2024 to 16.02.2024 / Vellore Institute of Technology, Chennai
Mrs.T.S.Nagananthini, AP/IT	Faculty Development Program on "Cloud Computing"	Jan to Apr 2024 / NPTEL - AICTE
Mr. P.L.Subramanian, AP/IT	Completed the & "Certificate Course on Python for Data Analysis"	13.02.2024 To 15.02.2024 / A2Z EduLearning Hub LLP
Mrs.K.Rani, AP/IT	Participated in the "REACT JS" Workshop	17.03.2024 / Reccsar Private Limited

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No. of Participants
12.02.2024 to 16.02.2024	Value Added Course on CYBER SECURITY	Mr.Sankarraj Subramanian, Founder CEO, Prompt Infotech, Coimbatore	90
17.02.2024	Opportunities and Latest trends in IT	Mr..Prasanna Vijayan, Freshworks, Senior Software	60

		Engineer- Frontend	
19.02.2024 to 23.02.2024	Placement and Training program on “ Java Programming”	Mrs.Brindha, SYASANS	70
28.02.2024	Seminar on Successful entrepreneurs and Start-Up	Mr.Hari Prasath,Founder CEO, Thanvi Technologies.	50
28.02.2024 to 01.03.2024	PHP Workshop	Mr.S.K. Sanjay Raj,Full Stack Developer Trainer,Reccsar Pvt.Ltd.,	85
23.03.2024, 25.03.2024 to 27.03.2024	Placement and Training program	Mr.N.Gururajan,Academic Content Developer cum Trainer	85
30.04.2024	National Technology Day	Mr.Hari Prasath , Founder CEO, Thanvi Technologies.M r.S.K. Sanjay Raj, Full Stack Developer Trainer, Reccsar	150

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Dr.G.Ramesh, Prof/IT	Introduction to Internet of Things	Jan to Apr 2024	NPTEL	Top 5% (Elite + Gold)
Dr.G.Ramesh, Prof/IT	Software Testing	Jan-Feb 2024	NPTEL	Elite
Mr.A.Selvaraj, AP(Sr.Gr.)/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Elite
Mr.A.Selvaraj, AP(Sr.Gr.)/IT	Digital Electronic Circuits	Jan to Apr 2024	NPTEL	Top 1% (Elite + Silver)
Mrs.S.Vijayasharmila, AP/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Top 1% (Elite + Silver)
Mrs.S.Jeniba, AP/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Elite
Mrs.T.T.Mathangi, AP/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Successfully completed
Mrs.N.Logamithra, AP/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Successfully completed
Mrs.P.Ramya, AP/IT	User-centric Computing for Human-Computer Interaction	Jan to Mar 2024	NPTEL	Elite
Mrs.I.Muthumeenatchi,	Cloud Computing	Jan to Apr	NPTEL	Top 2% (Elite +

AP/IT		2024		Gold)
Mrs.K.Rani, AP/IT	Cloud Computing	Jan to Apr 2024	NPTEL	Elite + Silver

Funding obtained from National bodies/AU/Industry

S.No	PI & CO- PI	Title of the Research project	Fund Generated / Proposal Applied	Funding Agency	Amount Generated / Proposed	Date and Month of Funding Approved
1.	Dr. P. Ganesh Kumar	Website Development Project, Domain		Madhan Balachandramohan, Vimaana Aero, Srinivasamurthy Avenue, Adyar, Chennai-600020	Rs.8465/-	17/01/2024 to 1/02/2024
2.	Dr. P. Ganesh Kumar	Ecommerce Site Development, Server Maintenance & Hosting		Dr.V. Akilaeswari, Eye Foods and Spices	Rs.10000/-	17.1.24
3.	Dr. P. Ganesh Kumar	Subscription of Website and Digital Marketing, Domain		Ashis Kumar Charkraborty, Buildwell Associates, Shop No: 301, 3rd floor, Osian chloroplaza, porur, Chennai	Rs.39500/-	12.1.24 1 Month
4.	Dr. P. Ganesh Kumar	Domain 1 year		Satheesh Kumar M, Saraga Technologies and Solutions	Rs.700/-	14/01/2024 13/01/2024
5.	Dr. P. Ganesh Kumar	Mind mate, Chatbot Project		Sarantheep Sachena S,	Rs.10000/-	02/02/2024 07/03/2024
6.	Dr. P. Ganesh Kumar	Fashion Trends Shopify Development		Adithyan Ramesh Pandaram, Fashion Trends	Rs.3000/-	06/02/2024 to 12/02/2024
7.	Dr. P. Ganesh Kumar	Domain 1 Year, Hosting		Dr. V. Akilandeswari, Feroma Technologies Private Limited, 5919 Ellis Nagar	Rs.31051/-	22/03/2024 to 21/03/2025
8.	Dr. P. Ganesh Kumar	Myshty Techne (Ecommerce Site)		Ashwini Omkumar, 44 manjanakara Street, Madurai	Rs.20000/-	22/03/2024 to 21/06/2024

Industry Collaboration / MoU

S.No	Organization Name	Purpose of MoU	Department	Year
1	THANVI Technologies, Madurai.	Workshops, Seminars and Technology transfer	IT	2024 to 2027 (3 Years)

2	RECCSAR Private Limited, Madurai.	Internship, Workshops, Guest Lectures and Technology transfer	IT	2024 to 2027 (3 Years)
3	Abhijith Electronic Solution, Madurai.	Workshops, Guest Lectures and Technology transfer	IT	2024 to 2027 (3 years)

NPTEL Online Certification Courses (Students)

S.No	Name of the Student	Year	NPTEL Course Name	Duration	Award
1	S Nagammai	III	Affective Computing	Jan–Apr 2024	Elite + Silver
2	Visvesh Khanna Trv	III	Affective Computing	Jan–Apr 2024	Elite + Silver
3	Siva Ranjani S	III	Affective Computing	Jan–Apr 2024	Elite
4	Saktheeswaran RSM	III	Affective Computing	Jan–Apr 2024	Elite
5	Santhosh G	III	Affective Computing	Jan–Apr 2024	Elite
6	Sankavi S R	III	Affective Computing	Jan–Apr 2024	Elite
7	Suki K	III	Affective Computing	Jan–Apr 2024	Elite
8	Vimal RMC	III	Affective Computing	Jan–Apr 2024	Elite
9	Rakshitha B	III	Affective Computing	Jan–Apr 2024	Successfully Completed
10	Rohinesh J	III	Affective Computing	Jan–Apr 2024	Successfully Completed
11	Manikanda Ravi M	III	Affective Computing	Jan–Apr 2024	Elite + Silver
12	Ajaykumar M	III	Affective Computing	Jan–Apr 2024	Elite
13	U C Miruthula	III	Affective Computing	Jan–Apr 2024	Elite
14	Dhanush R	III	Affective Computing	Jan–Apr 2024	Elite
15	Iyshwarya S	III	Affective Computing	Jan–Apr 2024	Elite
16	Aakash Chandar S	III	Affective Computing	Jan–Apr 2024	Elite
17	Boshini T P	III	Affective Computing	Jan–Apr 2024	Elite
18	Deepika K	III	Affective Computing	Jan–Apr 2024	Elite
19	Gayathri P	III	Affective Computing	Jan–Apr 2024	Elite
20	Hanish Ram B	III	Affective Computing	Jan–Apr 2024	Elite
21	Amjad I	III	Affective Computing	Jan–Apr 2024	Elite
22	Jayaharini P	III	Affective Computing	Jan–Apr 2024	Elite
23	Achuthen K S	III	Affective Computing	Jan–Apr 2024	Elite
24	R K Lakshmi Priya	III	Affective Computing	Jan–Apr 2024	Elite
25	Asha R	III	Affective Computing	Jan–Apr 2024	Successfully Completed
26	Harini S	III	Affective Computing	Jan–Apr 2024	Successfully Completed
27	S. Jones	III	Affective Computing	Jan–Apr 2024	Elite + Silver
28	G Kruthiga	III	Affective Computing	Jan–Apr 2024	Elite + Silver
29	Aniesha M	III	Affective Computing	Jan–Apr 2024	Elite
30	Lakshmipriya S R	III	Affective Computing	Jan–Apr 2024	Successfully Completed
31	D Kavi Selvi	III	Affective Computing	Jan–Apr 2024	Successfully Completed
32	Dharshini S	III	Affective Computing	Jan–Apr 2024	Successfully Completed

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the Student	Title of the Event	Competition	Achievement / Prize	Organized by	Year
1	J. Aadhihya, V. Deepak, V. Deepan, V. G. Karthikeyan	Hackathon 1.0	–	1st Prize	Auroitech Digital Foundation, Madurai	20.01.2024
2	M. Nithesh	Techutsav – Innohacks'24	–	2nd – Pitch Perfect	Thiagarajar College of Engineering	13.03.2024
3	K. Vimal	Techutsav –	–	2nd – Pitch	Thiagarajar	13.03.2024

	Adithan	Innohacks'24		Perfect	College of Engineering	
4	B. R. Praveen Kumar	Techutsav – Innohacks'24	–	2nd – Pitch Perfect	Thiagarajar College of Engineering	13.03.2024
5	T. J. Nithya Dharshini	Techutsav – Innohacks'24	–	2nd – Play with DB SQL	Thiagarajar College of Engineering	13.03.2024
6	T. K. S. Vinusha	Techutsav – Innohacks'24	–	2nd – Play with DB SQL	Thiagarajar College of Engineering	13.03.2024
7	Vimal Adithan K	Pitch Perfect – TECHUTSAV INNOHACK'24	–	2nd Prize	Thiagarajar College of Engineering	

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Patents Filed / Published / Granted

S. No	Name of the Inventor(s)	Title of the Patent	Patent Number	Status (Filed / Published)	Granted	Year
1	Dr. S. Balamurugan, AP(SG)/AI&DS	Multi-Layered Cybersecurity Framework Using Machine Learning Algorithms	202441027153	Filed	12.04.2024	2024
2	Dr. S. Balamurugan, AP(SG)/AI&DS	ARTIFICIAL INTELLIGENCE BASED NERVE ACTIVATION DEVICE FOR PARALYSIS TREATMENT	414301-001	Published	19/04/2024	2024
3	Dr. S. Balamurugan, AP(SG)/AI&DS	IoT Embedded drone for Harvesting of Honey to Empower the tribal people for their sustained Livelihood	202441041695	Published	14.6.24	2024

FDP / Workshop attended

S. No	Name of the Faculty	Topic	Organization Name	Date
1	B.AnandaSabariRajan, AP/AI&DS	Software Testing	K.L.N.C.E	29.01.2024 to 02.02.2024
		Python Programming with DJANGO Framework for Building web Application	CMR Engineering College	12.02.2024 to 16.04.2024

2	S.Meenakshi, AP/AI&DS	AR, VR & MR	MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)	22.03.2024
3	B.Ananda SabariRajan, AP/AI&DS	AR, VR & MR	MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)	22.03.2024
4	Dr. S. Balamurugan, AP(SG)/AI&DS	Power Quality and Energy Audit for Sustainable Development on Energy and Economic Growth	K.L.N. COLLEGE OF ENGINEERING	24.06.2024 to 28.06.2024

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Dr. S. Balamurugan, AP(SG)/AI&DS	Data Science for Engineers	8 Weeks	NPTEL	-
V.Abinaya, AP/AI&DS	Cloud Computing	12 Weeks	NPTEL	Elite
S.Meenakshi, AP/AI&DS	Quality Assurance through NAAC Accreditation Process	12 Weeks	NPTEL	84%
S.Sathish Kumar, AP/AI&DS	Quality Assurance through NAAC Accreditation Process	12 Weeks	NPTEL	84%

NPTEL Online Certification Courses (Students)

S.No.	Name of the Student	Year	NPTEL Course Name	Duration	Award (Elite/Silver/Pass)
1.	Aishwarya A	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
2.	Ashmitha P	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
3.	Deepalakshmi S	2024	Reinforcement Learning	Jan-Apr 2024 (12WeeksCourse)	Pass
4.	Hari Vignesh R G	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
5.	Harini M	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
6.	Harshinishri S S	2024	Reinforcement Learning	Jan-Apr 2024 (12WeeksCourse)	Pass
7.	Mathangi S	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
8.	Rajeev Roshan K A	2024	Reinforcement Learning	Jan-Apr 2024 (12WeeksCourse)	Elite
9.	Rajeev Roshan K A	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite

10.	Niles Banu S	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
11.	Sai Buvanesh A R	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
12.	Sai Buvanesh A R	2024	Social Networks	Jan-Apr 2024 (12WeeksCourse)	Pass
13.	Sreelekha V	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
14.	Sriharini R	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
15.	Srishma P S	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
16.	Subhiksha G	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
17.	Sugisubramani S	2024	Reinforcement Learning	Jan-Apr 2024 (12WeeksCourse)	Pass
18.	Vignesh Kumar S	2024	Social Networks	Jan-Apr 2024 (12WeeksCourse)	Pass
19.	Vignesh Kumar S	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse)	Elite
20.	Vishnu Vardhan B K	2024	Affective Computing	Jan-Apr 2024 (12WeeksCourse))	Elite
21.	Swetha T	2024	Blockchain and its Applications	Jan-Apr 2024 (12WeeksCourse))	Elite
22.	Sathya S	2024	Blockchain and its Applications	Jan-Apr 2024 (12WeeksCourse))	Pass
23.	Nandini Sree B	2024	Python for Data Science	Jan-Feb 2024 (4 WeeksCourse))	Elite

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

Short term courses/seminar/symposium attended by the Faculty Members:

Name and Designation of the Faculty Member	Seminar/Workshop/Course Attended	Date/Place
Mrs. T. SUGANYA, AP/CSE(CS)	FDP - PROMPT ENGINEERING	1 April 2024 - 5 April 2024
Ms. S. MUTHAYEE, AP/CSE(CS)	FDP - PROMPT ENGINEERING	1 April 2024 - 5 April 2024

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No. of Participants
12-03-24	Health Awareness Program	Dr. S. Mohan, Acupuncture Clinic, Madurai	All Department Staffs

Staff Achievements/Recognition / Honours

Name and Designation of the Staff Member	Achievements of Staff/Recognition/ Honors	Date/Place
Dr. J. S. KANCHANA	Student feedback on Faculty for the subject Database Management Systems	KLNCE

Guest Lectures / Expert Talks Organized

S. No	Name of the Speaker	Topic	Organization	Institution	Date
1	Mr.S.Srikanth, Asst, Manager ”	IT INFRASTRUCTURE WITH INFORMATION SECURITY	Citius Tech Healthcare Pvt., Ltd.,Chennai 	IT INDUSTRY	02-04-2024
2	Mr. ASHOK KUMAR MOHAN, FOUNDER AND DIRECTOR,	AI RELATED DIGITAL FORENSICS	138,Aarapalayam Main Road, Kriyavan Cyber Forensic Service Private Limited, Madurai, Tamil Nadu 625016, INDIA 	IT INDUSTRY	14-03-2024
3	Mr. T.M Prasanna Vijayan, Senior Software Engineer ”	WEB APPLICATION SECURITY AND STRATEGIES TO MITIGATE	FRESH WORKS – CHENNAI 	IT INDUSTRY	18-04-2024
4	Mr. S. Deepak Kumar,	Mindset towards Entrepreneurship	Founder, Native Home Needs, Madurai	Founder, Native Home Needs, Madurai	09-05-24

					
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. Industry Collaboration / MoU

S.No.	Organization Name	Purpose of MoU	Department	Year
1.	KRIYAVAN CYBER FORENSIC SERVICE PRIVATE LIMITED	By signing this MoU, KLNCE is Planning to get consultancy on relevant courses, conduct training, skill development programs, and train the attendees related to thrust areas such as cyber security, cyber forensics, penetration testing on their IT infrastructure to enhance the skills of aspirants through awareness programs and be safe and secured from dynamically evolving attacks in cyber space	CSE (CYBER SECURITY)	March 2024

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the student	Title of the event	Competition	Achievement / Prize	Organized by	Year
1.	K.G. Joshika S. Magisha	WEC Event – KLNCE	Fireless Cooking	Third Prize	KLNCE-WEC	March 2024
2.	R. Jeyashree K. Kiruthika	WEC Event	Connections	Third Prize	KLNCE-WEC	March 2024

Industrial Visits

Year/Sem	Date	Industry Visited
III YEAR & IV YEAR	4.4.2025	KANNAN DEVAN HILLS PLANTATIONS COMPANY, MUNNAR.

DEPARTMENT OF MATHEMATICS

Books / Book Chapters Published: NIL

S. No	Name of the Author(s)	Title of the Book	Chapter	Publisher	ISBN	Year
1	Dr.J.K.SubashiniProf. / HODMaths	Discrete Mathematics		JS Publications		Nov 2024
2	Dr.R.Selvarani/ASP2	Discrete Mathematics		JS Publications		Nov 2024

Short term courses /seminar/symposium organized by the Department:

Date	Title	Detail s of Resou rce Person	No.of Particip ants	Co-ordinator	Photo
12.01.2024	Founder's day Celebration – Online Quiz Competition		149 students of various school students	Dr.J.K.Subashini/Prof/HOD Dr.R.Selvarani/ASP2/Maths Dr.S.Sabrinathan/ASP / Maths Mrs.R.Kalaiselvi/AP/Maths Mrs.R.Usha/AP/Maths Mr.G.Pushparajan/AP	
28.02.24	“TECH NO SCIEN CE FESTIV AL - 2024” Painting Competition Title: Mathem aticians and their Contribu tions		26 students of I year B.E/B.T ech	Dr.J.K.Subashini/Prof/HOD Dr.R.Selvarani/ASP2/Maths Mrs R.Kalaiselvi /AP/Maths Mr.G.Pushparajan/AP /Maths Mrs.R.Usha/AP/Maths	
13.05.24 12.00 noon to 12.50 p.m.	Maths Club-ODYSS EY Aptitud e Test		48 students of I year B.E/B.T ech	Dr.J.K.Subashini/Prof/HOD Dr.R.Selvarani/ASP2/Maths Mrs.R.Kalaiselvi/AP2/Maths Mrs.R.Usha/AP2/Maths Dr.S.Sabrinathan/ASP 2/ Maths Mr.G.B.Kannan/AP2/Maths Mr.V.Anath/AP2/Maths	

				Mrs.Nancy Femila/AP2/Maths Mrs.K.Sathyabama/AP2/Maths	
13.05.2024 1.30 p.m to 2.20 p.m	Maths Club-ODYSS EY Sudoku		49 students of I year B.E/B.Tech	Dr. J.K.Subashini/Prof/HOD Mrs.R.Kalaiselvi/AP2/Maths Mrs.R.Usha/AP2/Maths Dr.S.Sabrinathan/ASP2/ Maths Mr.G.Pushparajan/AP/ Maths Mr.G.B.Kannan/AP2/Maths Mr.V.Anath/AP2/Maths Mrs.Nancy Femila/AP2/Maths Mrs.K.Sathyabama/AP2/Maths	

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Dr. R. Selvarani/ASP2/Maths	Basic Linear Algebra	Jan-Mar 2024	IIT Bombay	Successfully completed
Mrs.M.Nancy Femila /AP2/Maths	Basic Linear Algebra	Jan-Mar 2024	IIT Bombay	Successfully completed
Mrs.K.Sathyabama /AP2/Maths	Basic Linear Algebra	Jan-Mar 2024	IIT Bombay	Elite
Mrs.R.Usha/ AP2/Maths	Statistical Inference	Jan-Mar 2024	IIT Madras	Successfully completed
Mr.G.Pushparajan/AP/Maths	Engineering Mathematics II	Jan-Aprilr 2024	IIT Kharagpur	Elite+Silver
Mr.G.B.Kannan/AP2/Maths	Engineering Mathematics II	Jan-Aprilr 2024	IIT Kharagpur	Elite+Silver

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the Student	Title of the Event	Competition	Achievement / Prize	Organized by	Year
1	Prasath M	“Mathematicians and their Contributions” (28.02.2024)	Painting Competition	I	KLNCESHA – Science and Humanities Association, TECHNO SCIENCE FESTIVAL 2024	I B.E ECE (B)
2	Vishwa M	“Mathematicians and their Contributions”	Painting Competition	II	KLNCESHA – Science and Humanities Association	I B.E EEE
3	Mathumidha M	“Mathematicians	Painting	II	KLNCESHA –	I B.E IoT

		and their Contributions”	Competition		Science and Humanities Association	
4	Aravindh N K	“Mathematicians and their Contributions”	Painting Competition	III	KLNCESHA – Science and Humanities Association	I B.E CSE (A)
5	Vishva Sruthi N K	Aptitude Test (13.05.2024)	–	I	Mathe Club – ODYSSEY	I B.E CSE (B)
6	Shahana R	Aptitude Test	–	II	Mathe Club – ODYSSEY	I B.E CSE (B)
7	Madhumitha M	Aptitude Test	–	–	Mathe Club – ODYSSEY	I B.E AIDS / IOT
8	Soundarya B	Aptitude Test	–	–	Mathe Club – ODYSSEY	I B.E ECE (B)
9	Kiruthika P	SUDOKU (13.05.2024)	–	I	Mathe Club – ODYSSEY	I B.E ECE (A)
10	Joshika K G	SUDOKU	–	–	Mathe Club – ODYSSEY	I B.E CSE (CS)
11	Sri Vishnu K V	SUDOKU	–	II	Mathe Club – ODYSSEY	I B.E CSE (IoT)
12	Abishek T A	SUDOKU	–	–	Mathe Club – ODYSSEY	I B.E CSE (IoT)
13	Bharath Amirthavarsaha V R	SUDOKU	–	III	Mathe Club – ODYSSEY	I B.Tech AIDS (B)

DEPARTMENT OF PHYSICS

Publications in International/National Journal

1. **Dr. N. R. Ramanujam**, “GST Based Surface Plasmon Resonance Reconfigurable Biosensor for Detection of Human Sperm”, *Plasmonics*, May 2024.
2. **Dr. N. R. Ramanujam**, “Numerical Design of a High-Sensitivity SPR Biosensor for Spike and Nucleoprotein RBD Detection in SARS-CoV-2 Diagnostics”, *IEEE Transactions on Plasma Science*, 2025.

Publications in International/National Conference

Name /Designation of the staff	Title of the paper	PLACE /PERIOD/ NAME OF THE JOURNAL
Dr.R.Geetha, ASP1/Physics	Graphene – A Smart material	KLNCE/0504.2024/ICSDET’24

Short term courses/seminar/symposium attended by the Faculty Members:

Name and Designation of the Faculty Member	Seminar/Workshop/Course Attended	Date/Place
Dr.R.Geetha, ASP1/Physics M.Manjuladevi,AS2/Physics T.K. Jothi Priya,AP2/Physics	National Science Day on the topic “Science in Technological Innovations”	28.02.2024, N.M.S Sermathai Vasan College for Women, Madurai,
	The International Virtual Conference on “Emerging Technologies in Materials Science “(ICETM-2024)	22.02.2024, Jayaraj Annapackiam College for Women, Periyakulam.
	The International Virtual Conference on “Emerging Technologies in Materials	22.02.2024, Jayaraj Annapackiam College for Women, Periyakulam.

	Science “(ICETM-2024)	
Dr.R.Geetha, ASP1/Physics M.Manjuladevi,AP2/Physics	International Conference on Sustainable Development in Engineering and Technology	05.04.2024, K.L.N.College of Engineering
T.K. Jothi Priya, AP2/Physics	“Three days Physics Conclave”	13.05.2024 to 15.05.2024 SRM, Madurai

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Dr. N.R. Ramanujam, ASP1/Physics Dr.R.Geetha, ASP1/Physics M.Manjula devi, AP2/Physics	Physics for Nano Scale Devices	12 Weeks	IIT,CHENNAI	Pass
Dr.K.Poovendran,AP2/Physics	Biophotonics			

DEPARTMENT OF CHEMISTRY

Publications in International/National Journal

1. **Piramanayagam, P.**, Srividhya.N, and Vijayakumar.M “Investigate the mechanical properties of Cu-SiO₂ nanocomposite via powder metallurgy”. *Springer interactions*. Vol (245:167). DOI: 10.1007/s1075-024-01975-1 (**Scopus**) **SDG mapping:4,9**, 2024.
2. **Piramanayagam P**, Arangarajan M and Jeyapriya S, “Circular economic Strategies for resource efficiency and Sustainable Development in Manufacturing Industries” *Migration Letters*. Volume 21.No S8 24 pp 919-931 ISSN 1741-8992 (**Scopus**) **SDG mapping:4,9,7**, 2024.
3. **Piramanayagam P**, venkanna K and Sivaraman R, “Mathematical Physics Approaches to Nanotechnology and Material Science” *Nanotechnology Perceptions*. Volume 20.No 16 pp 85-97 ISSN 1660-6795 (**Scopus**) **SDG Mapping: 4, 8**, 2024.

Publications in International/National Conference

Mrs. R. Iswarya, “Exploration on DNA interaction studies of biologically interesting few novel mixed ligand metal (II) complexes in corpora tong imidazole towards CT-DNA”, *KLNCE*, April 2024

Short term courses /seminar/symposium organized by the Department:

Date	Title	Details of Resource Person	No.of Participants
28.02.2024	Save Water and Ecosystem Restoration,(Poster presentation)TECHNO SCIENCE FESTIVAL-2024	Mrs.R.Seethalakshmi & Mrs.R.Niraimathi	66

NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Mrs. O.D.Shakila HOD/ASP	Effective Engineering	Jan – Feb 2024	NPTEL	Successfully completed with

	Teaching In Practice			Silver
Mrs. R. Iswarya, AP	Air Pollution and Control	Jan- April 2024	NPTEL	Successfully completed with Elite
Mrs. R. Seethalakshmi, AP	Co-Ordination Chemistry	Jan- April 2024	NPTEL	Successfully completed with gold
Mrs. R. Niraimathi, AP	Air Pollution and Control	Jan- April 2024	NPTEL	Successfully completed with Elite
Mrs. T. Kartheeswari, AP	Effective Engineering Teaching In Practice	Jan – Feb 2024	NPTEL	Successfully completed with Elite
	Co-Ordination Chemistry	Jan- April 2024	NPTEL	Successfully completed with Silver
Dr. B. Tamilselvi, AP	Air Pollution and Control	Jan- April 2024	NPTEL	Successfully completed with Elite

Funding obtained from National bodies/AU/Industry

S.No.	PI & CO- PI	Title of the Research project	Fund Generated / Proposal Applied	Funding Agency	Amount Generated / Proposed	Date and Month of Funding Approved
1.	Mrs. R. Seethalakshmi –PI Mrs. T. Kartheeswari- CO-PI	Synthesis characterization and Photocatalytic activity of bare surface modified ZnO nano particles	Fund Generated By KLNCE	QC-ARD	Rs.20,000	31.01.2024

DEPARTMENT OF ENGLISH

Publications in International/National Conference

1. **Mr. S. S. Karthick Kumar**, “ChatGPT: A Transformative Tool for Language Learning”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET'24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai District, April 2024.
2. **Mr. K. Sarangan**, “ChatGPT: A Transformative Tool for Language Learning”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET'24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai District, April 2024.
3. **Mrs. J. Vidhya**, “Holistic Solutions to the Negative Impact of AI in English Language Learning”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET'24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai District, April 2024.
4. **Mrs. C. Nivetha**, “Holistic Solutions to the Negative Impact of AI in English Language Learning”, *International Conference on Sustainable Development in Engineering and Technology (ICSDET'24)*, Organized by **K.L.N. College of Engineering**, Pottapalayam, Sivagangai District, April 2024.

MASTER OF BUSINESS ADMINISTRATION

Publications in International/National Journal

1. M.Krishnaveni, "Artificial Intelligence in Human Resource Management" **International Journal Publication** – Published in PAPIPEX INDIAN JOURNAL OF RESEARCH(a Peer Reviewed, Referred, Referred and Indexed International Journal)Volume 13,Issue 03,Print ISSN No:2250-1991 March 2024.
2. M.Krishnaveni, A Study on Employee Retention Strategy in IT Sector International Journal Publication- Published in E-Journal by IJSART, Volume 10, Issue 3, ISSN (online) : 2395-1052 March 2024.
3. Dr.R.S.Balasenthil&Dr.Jothimurgan, Adoption and Implementation of Fintech Solutions in Indian Banking Sector **Journal Publication** – Published in journal of Inventive and scientific Research Studies (JISRS) ISSN : 2584-0630N(Online) Vol:I Issue-2 Jan 2024.
4. Dr.Jothimurgan, B.Shanthi&T.ShobanaDevi Industries' Digital Revolution : A Core Shift in the Contemporary Tech Sphere **Journal Publication** – Published in IJIRSET Volume 13, Issue 5 , Impact Factor 8.423 e-ISSN-2319-8753 DOI:10.15680/IJIRSET.2024.1305423 May 2024

Publications in International/National Conference

1. S.N.R.Srikumar, AI in Business Decision Making **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
2. S.N.R.Srikumar AI and Ethics in Business Decision **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
3. B.Shanthi Exploring The Impact of Artificial Intelligence in Marketing: A Comprehensive Study **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
4. B.Shanthi An Overview of Financial Inclusion in India **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
5. T.ShobanaDevi Navigating the Digital Frontier: Essential Leadership Strategies for Success in the Modern Age **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
6. T.ShobanaDevi The Intersection of AI and Ethics in Corporate Decision Making"**Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
7. M.Krishnaveni A Study on Impact of Green Leadership in Human Resource Mangement **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
8. M.Krishnaveni Cross – Cultural Entrepreneurship in International Business Activities **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024
9. S.P.Nandhini A Study on Cashless Economy with Special Reference to Bottom of Pyrmid **Presented a paper in International Conference** on Sustainable Development in Engineering and Technology (ICSDET'24) at KLN College of Engineering 05.04.2024

Short term courses /seminar/symposium organized by the Department:

Date	Title	Detailsof ResourcePerson	No.of Participants
30.04.2024	NammaSanthai '24	MR.S.K.M Balaji Proprietor of Balaji Traders and SMT Agro Products	52

Staff Achievements/Recognition/ Honours

S. No	Name and Designation of the Staff Member	Achievements of Staff / Recognition / Honors	Date / Place
1	Prof. M. Krishnaveni, AP	Leadership Skills	07.05.2024, 08.05.2024 & 09.05.2024 – Postal Training Center

2	Prof. B. Shanthi, AP (SG)	Motivation	14.05.2024, 15.05.2024 & 16.05.2024
3	Prof. T. Shobanadevi, AP	Team Building	21.05.2024, 22.05.2024 & 24.05.2024
4	Prof. S. P. Nandhini, AP	Team Building	27.02.2024 & 28.02.2024
5	Prof. T. Shobanadevi, AP	Motivation	04.03.2024 & 05.03.2024
6	Prof. M. Krishnaveni, AP	Leadership Skills	11.03.2024 & 12.03.2024
7	Prof. B. Shanthi, AP (SG)	Communication Skills	18.03.2024 & 19.03.2024
8	Dr. T. Jothimurugan, Professor & Director	Customer Care	22.03.2024 & 25.03.2024
9	Prof. S. P. Nandhini, AP	Team Building	25.01.2024 & 29.01.2024
10	Prof. T. Shobanadevi, AP	Motivation	30.01.2024 & 31.01.2024
11	Prof. M. Krishnaveni, AP	Leadership Skills	01.02.2024 & 02.02.2024
12	Prof. B. Shanthi, AP (SG)	Communication Skills	05.02.2024 & 06.02.2024
13	Dr. T. Jothimurugan, Professor & Director	Customer Care	07.02.2024 & 08.02.2024

Guest Lectures / Expert Talks Organized

S. No	Name of the Speaker	Topic	Organization	Institution	Date
1	Mr. J.K. Muthu Founder Of BGROW Com, Chairman	“How to start a business model for the startup’s”	DIGIT-ALL, TEDCO Of Chamber Of Commerce Tamil Nadu	KLNCE	31.05.2024
2	Mrs. Thenmozhi Chatelier Self employed	“ Language Training Program”	Freelancer Cambridge Trainer	KLNCE	21.05.2024 & 22.05.2024
3	Mr. M. Shunmugasundaram, President,	“ Emotional Intelligence For Organizational Success”	Madurai Management Association, Madurai	KLNCE	13.05.2024
4	Mr. Rajesh, MBA(UK-London),	“ Trading in Stocks & Commodities ”	Finance Consultant & Training, London	KLNCE	18.04.2024
5	Mrs. Sasikala (Sr-Manager)	“ HR Practices and Industry’s Expectations ”	Happiest minds limited sasikala.p@happiestminds.com	KLNCE	22.03.2024

Industrial Visits

Year/Sem	Date	Industry Visited
II/III	12.06.2024	Visit at GHCL Textile LTD - Batch 2022-2024 Students accompanied by Prof.B.S.Shanthi & Prof.T.S.Ramkumar 

MASTER OF COMPUTER APPLICATION

Publications in International/National Conference

Mr. K Tamilselvam, Presented a paper in an International Conference organized by K.L.N. College of Engineering

Short term courses / seminar / symposium attended by the Faculty Members:

Name and Designation of the Faculty Member	Seminar/Workshop/Course Attended	Date/Place
Dr M R Ilango, Director / MCA	Online FDP on “DBMS”	Jan’24 to Apr’24
Dr C Ashok Baburaj, ASP / MCA	Online FDP on “DBMS”	Jan’24 to Apr’24
Mr R Somsakandan, ASP / MCA	Online FDP on “DBMS”	Jan’24 to Apr’24
Mr K Tamilselvam, AP / MCA	Online FDP on “DBMS”	Jan’24 to Apr’24
Mrs S Deepika, Ap / MCA	Online FDP on “JAVA”	Jan’24 to Apr’24
Mr K Tamilselvam	Six Days Faculty Empowerment programme on “Neural Networks and Deep Learning”	24.06.2024 to 29.06.2024, Anna University Regional Campus, Madurai

Short term courses /seminar/symposium organized by the Department:

Date	Title	Detailsof ResourcePerson	No.ofParticipants
19.02.2024 to 22.02.2024	Workshop on “Power MicrosoftBI”	Mr R Vishnu Priyan, HTC	60
06.06.2024 to 08.06.2024	Workshop on Advanced JAVA Script and PHP	Mr R Sathish, Iyal Learn	60

Guest Lectures / Expert Talks Organized

S. No	Name of the Speaker	Topic	Organization	Institution	Date
	Mr R Srinivasan, Team Leader, Nextwebby Solutions, Bangalore	Awareness on AWS	Nextwebby	KLNCE	11.03.2024

10.NPTEL Online Certification Courses (Faculty Members)

Name of the Staff & Designation	Course Title	Course duration	Course conducted by	Award (Elite/Silver/Pass)
Dr. M R Ilango	NPTEL Certification in DBMS	JAN’24 to Apr’2024	NPTEL SWAYAM	ELITE + TOPPRS 2%
Dr. C Ashok Baburaj	NPTEL Certification in DBMS	JAN’24 to Apr’2024	NPTEL SWAYAM	ELITE
Mr. R Sosamkandan	NPTEL Certification in DBMS	JAN’24 to Apr’2024	NPTEL SWAYAM	ELITE

Mrs. S Deepika	NPTEL Certification in JAVA	JAN'24 to Apr'2024	NPTEL SWAYAM	ELITE
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NPTEL Online Certification Courses (Students)

S.No.	Name of the Student	Year	NPTEL Course Name	Duration	Award (Elite/Silver/Pass)
1	K.S.Sudharsan	2024	"Programming in JAVA"	JAN'24 to Apr'2024	ELITE
2	A Suresh Kuamr	2024	"Programming in JAVA"	JAN'24 to Apr'2024	ELITE
3	K.R.Nagaraj	2024	"Programming in JAVA"	JAN'24 to Apr'2024	ELITE
4	K.J.Abishek	2024	"Programming in C"	JAN'24 to Apr'2024	ELITE
5	R.Gayathri	2024	"Programming in C"	JAN'24 to Apr'2024	ELITE

Student Achievements (Competitions / Hackathons / Sports / Cultural)

S. No	Name of the student	Title of the event	Competition	Achievement / Prize	Organized by	Year
1	D.Ajay Albert	DCSA Interface'24	Symposium	Won I Prize in Web-designing and Received Overall Runners Award	MCA department of Gandhigram Rural Institute	2024
2	K.R.Nagaraj	DCSA Interface'24	Symposium	Won II Prize in Quiz and Received overall Runners Award	MCA department of Gandhigram Rural Institute	2024
3	G.Sathiyamayaki	DCSA Interface'24	Symposium	Won III prize in Paper Presentation and Received overall Runners Award	MCA department of Gandhigram Rural Institute	2024

