VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)

ADVANCING THE 2030 AGENDA

ANNUAL SUSTAINABLE DEVELOPMENT GOALS REPORT

2025

SUSTAINABLE DEVELOPMENT GOALS

17 GOALS ONE SHARED FUTURE


SDG11

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY)

SDG 11 – SUSTAINABLE CITIES AND COMMUNITIES

SDG 11 Event List

S. No.	Date	Event / Activity	Organising Institution / Department
1	1 June 2025	Beach-Cleaning Activity on Environmental Day	National Service Scheme (NSS), Vinayaka Mission's College of Nursing, Puducherry
2	25 August 2025	Road Safety Awareness Session during Student Induction Programme	School of Allied Health Sciences, VMCC
3	29 August 2025	Road Safety Awareness with the Community	Road Safety Club, School of Allied Health Sciences. SLM
4	28 August 2025	Experiential Learning Trip to Mahabalipuram	AVIT
5	28 November 2025	Road Safety Awareness Programme and Exhibition Bus Showcase	Road Safety Club, School of Allied Health Sciences, in association with Tamil Nadu State Transport Corporation, Salem

DETAILED EVENT REPORTS

1. Beach-Cleaning Activity on Environmental Day

Date: 1 June 2025

Organising institution / department: National Service Scheme (NSS), Vinayaka Mission's College of Nursing, Puducherry

Place: Near Gandhi Statue, Puducherry

Event report: Twenty NSS volunteers from Vinayaka Mission's College of Nursing, Puducherry, participated in a beach-cleaning activity near the Gandhi Statue on 1 June 2025. The activity was organised by the NSS Cell and Garnier team.



2. Road Safety Awareness Session during Student Induction Programme

Date: 25 August 2025

Organising institution / department: School of Allied Health Sciences

Event report: As part of the Student Induction Programme, the School of Allied Health Sciences, VMCC, organised a Traffic Awareness and Road Safety session on 25 August 2025. Mr. Selvam, Traffic Inspector of Police, Chengalpattu, highlighted the importance of wearing helmets, following traffic rules and maintaining road discipline. He also explained the Good Samaritan Scheme and encouraged participants to assist accident victims.



3. Road Safety Awareness with the Community

Date: 29 August 2025

Organising institution / department: Road Safety Club, School of Allied Health Sciences

Place: Fairlands, Salem

Event report: The Road Safety Club organised a community road safety awareness event at Fairlands, Salem, on 29 August 2025. Students performed mime acts and distributed awareness pamphlets. Tree saplings were presented to helmet users, and reflective stickers were applied to two-wheelers to promote safer night driving.



4. Experiential Learning Trip to Mahabalipuram

Date: 28 August 2025

Place: Mahabalipuram

Event report: Students visited historic landmarks in Mahabalipuram, including the Five Rathas, Shore Temple and Krishna's Butterball, to learn about Tamil Nadu's cultural and architectural heritage.



5. Road Safety Awareness Programme and Exhibition Bus Showcase

Date: 28 November 2025

Organising institution / department: Road Safety Club, School of Allied Health Sciences, in association with Tamil Nadu State Transport Corporation, Salem

Place: School of Allied Health Sciences campus

Event report: The Road Safety Club, School of Allied Health Sciences, VMRF (DU), and the Tamil Nadu State Transport Corporation, Salem, organised a Road Safety Awareness Programme and Exhibition Bus Showcase on 28 November 2025. Road Safety Trainer Mrs. Sankar M. and Driving Instructor Mr. P. Maadhu served as chief guests and delivered an awareness session.



List of VMRF (DU) Publications Made on SDG-11 in the Year 2025

S.No	Authors	Title	Year	Source title	DOI	Source
1	Malarvel M.; Goyal W.; Sargam S.; Mundada K.; Viji Amutha Mary A.; Rathore A.	AI FOR PRESERVING INDIGENOUS FOLK ART PATTERNS	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i5s.2025.6900	Scopus
2	Srinivasan S.; Divahar R.	Odor Emissions from Municipal Solid Waste Open Dumps Constituting Health Problems Due to their Composition, Ecological Impacts and Potential Health Risks	2025	Nature Environment and Pollution Technology	10.46488/NEPT.2025.v24i01.B4200	Scopus
3	Shibu S.; Kirubakaran S.; Remamany K.P.; Ahamed S.; Chitra L.; Kshirsagar P.R.; Tirth V.	Anomaly detection using deep learning approach for IoT smart city applications	2025	Multimedia Tools and Applications	10.1007/s11042-024-19176-x	Scopus
4	Latha R.; Rout U.; Priya V.S.; Amin P.; Varma P.; Bhardwaj U.; Bansal S.	Urbanization and the Risk of Emerging Infectious Diseases: A Case Study Approach	2025	Genetics and Molecular Research	10.4238/tkrqg602	Scopus
5	Parameswari R.; Madhan Kumar P.; Azhagu P.S.; Yogesh T.; Janani I.; Ganesamoorthy R.; Babujanarthanam R.	Materials for Microbial Fuel Cells: Harnessing Bio Electrochemical Systems	2025	Sustainable Materials for Fuel Cell Technologies	10.1002/9781394247806.ch8	Scopus
6	Suneetha K.; Gupta K.; Gandhi A.; Rangasamy A.; Ludam R.; Kumar V.V.; Desai M.	EXPLORING THE PUBLIC HEALTH IMPACTS OF AIR POLLUTION ON RESPIRATORY HEALTH IN URBAN POPULATIONS	2025	Genetics and Molecular Research	10.4238/2hv24c33	Scopus
7	Mary Praveena J.; Gupta V.; Rath S.; Malik M.; Suri S.; Ambhore V.	GAN-BASED RECONSTRUCTION OF VINTAGE PRINTS	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i5s.2025.6913	Scopus
8	Simonthomas S.; Praveena J.M.; Shobana R.; Shalini K.S.; Malathi V.; Prathikksha S.	Improving Throughput Efficiency of Cyber Physical Systems Communications using Quantum Cryptography	2025	Proceedings of 2025 1st International Conference on Radio Frequency Communication and Networks, RFCoN 2025	10.1109/RFCoN62306.2025.11085331	Scopus
9	Loganathan P.; Devika S.V.; Trivedi L.M.; Devi S.R.; Malik N.; Jayakumar D.	Optimizing Urban Solid Waste-to-Energy Production Systems with Backpropagation Neural Network Model	2025	3rd International Conference on Integrated Circuits and Communication Systems, ICICACS 2025	10.1109/ICICACS65178.2025.10967692	Scopus
10	Lakshmi D.; Yuvaraj T.; Devabalaji K.R.; Thanikanti S.B.; Mahmud P.	Optimizing Hybrid Renewable Energy Sources and Grid Integration for Economic Analysis Using the Hunter-Prey Optimization Algorithm	2025	2025 8th International Conference on Circuit, Power and Computing Technologies, ICCPCT 2025	10.1109/ICCPCT65132.2025.11176764	Scopus
11	Sivasankaran S.; Ali Samhan A.A.; Balamurugan A.; Al-Shaikh A.; Vijaya Kumari E.N.; Karthikeyan G.	An Innovative Cloud-Edge Computing Disaster Management Infrastructure with Blockchain Inclusion: Promoting Safe and Open Emergency Response Across Dispersed Networks	2025	2025 2nd Asia Pacific Conference on Innovation in Technology, APCIT 2025	10.1109/APCIT65661.2025.11410903	Scopus

List of VMRF (DU) Publications Made on SDG-11 in the Year 2025

S.No	Authors	Title	Year	Source title	DOI	Source
12	Vengatesan K.; Pragadeeswaran S.; Chinnadurai J.; Preetha J.; Ravishankar T.N.; Rajesh M.	A Comparative Performance Analysis of Linear Regression Models for House Price Prediction	2025	Proceedings of 8th International Conference on Computing Methodologies and Communication, ICCMC 2025	10.1109/ICCMC65190.2025.11140743	Scopus
13	Sivakumar R.; Singh K.; Nishok V.S.; Barshe S.B.; Pokkuluri K.S.; Srihari T.; Hariram V.; Mohapatra M.R.	Urban Air Quality Monitoring System Enhanced by IoT for Comprehensive Deployment, Data Collection, and Environmental Impact Analysis	2025	WSEAS Transactions on Environment and Development	10.37394/232015.2025.21.33	Scopus
14	Balakrishnan S.; Simonthomas S.; Prasad B.; Rao K.S.	Designing Intelligent Traffic Routing Systems for Autonomous Vehicles using the Deep Learning based Optimization Algorithm	2025	Proceedings of 5th International Conference on Soft Computing for Security Applications, ICSCSA 2025	10.1109/ICSCSA66339.2025.11170865	Scopus
15	Patel J.; Gupta S.; Jayapalan S.; Singh S.P.; Dev A.; Deokar A.A.	3D PRINTING FOR PHOTOGRAPHIC RELIEF SCULPTURES	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i5s.2025.6887	Scopus
16	Jadhav R.K.; Traisa R.; Farooqui Y.; Mary V.S.; Nanda S.; Sohal J.	MANAGEMENT ETHICS IN THE AI-ART ECOSYSTEM	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i1s.2025.6680	Scopus
17	Muruga Priya P.; Nandhini T.; Mohanapriya K.; Shobana R.	Building Tomorrow's Cities: The Impact of AI and Data Science on Urban Development	2025	Advanced AI and Data Science Applications	10.1201/9781003543527-4	Scopus
18	Putra R.S.; Juneja B.; Kumari H.; Kaushik N.; Dwibedi R.K.; Rawat K.; Barkade S.S.	AUGMENTED REALITY AND AI IN PUBLIC ART MANAGEMENT	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i5s.2025.6924	Scopus
19	Malarvel M.; Shobana R.; Poonguzhali S.; Gino Sophia S.G.; Simonthomas S.	Leveraging Generative AI for Seismic Vulnerability Assessment in Classifying Building Damage Using the Ems-98 Scale	2025	5th IEEE International Conference on Innovations in Power and Advanced Computing Technologies, i-PACT 2025	10.1109/i-PACT65952.2025.11307965	Scopus
20	Jayaudhaya J.; Gunavathie M.A.; Amutha M.; Chitra Devi D.; Loganathan S.; Palanivel V.	Smart Intersection Management with Real-Time Collision Prevention Using AI and IoT	2025	Proceedings of the 2025 11th International Conference on Communication and Signal Processing, ICCSP 2025	10.1109/ICCSP64183.2025.11088515	Scopus
21	Yuvaraj T.; Sengolrajan T.; Prabaharan N.; Devabalaji K.R.; Uehara A.; Senjyu T.	Enhancing Smart Microgrid Resilience and Virtual Power Plant Profitability Through Hybrid IGWO-PSO Optimization With a Three-Phase Bidding Strategy	2025	IEEE Access	10.1109/ACCESS.2025.3565460	Scopus

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S.No	Authors	Title	Year	Source title	DOI	Source
22	Surya R.; Subhikshni V.S.; Kasthuri J.; Sundaram R.S.S.	EcoTrack: AI-Powered Smart Waste Management System	2025	Proceedings - 1st International Conference on Frontier Technologies and Solutions, ICFTS 2025	10.1109/ICFTS62006.2025.11032071	Scopus
23	Rajesh M.; Babu R.G.; Moorthy U.; Easwaramoorthy S.V.	Machine learningdriven framework for realtime air quality assessment and predictive environmental health risk mapping	2025	Scientific Reports	10.1038/s41598-025-14214-6	Scopus
24	Michael B.S.; Krishnamoorthi S.; Prakash S.; Gokul T.; Khan S.M.R.	Waste Plastic Derived Diesel - An Experimental Investigation - Enhancing Engine Performance and Reducing Emissions Through Thermal Barrier Coatings	2025	Indian Journal of Environmental Protection		Scopus
25	Gowda V.D.; Suneel S.; Prasad V.N.; Jagtap M.M.; Prasad K.D.V.; Ramaswamy S.; Hariram V.	A novel approach to real-time environmental monitoring and automated air quality enhancement using smart nanostructured sensors with adaptive data processing	2025	Nanotechnology for Environmental Engineering	10.1007/s41204-025-00446-4	Scopus
26	Thirugnanasambandham K.; Gomathi R.; Parameswari R.; Kossar S.; Rasool A.; Shinyjoy E.; Ganesamoorthy R.	Sustainable Approach of Real Municipal Wastewater Treatment Using Lactobacillus plantarum Strain, Aluminum Chloride and Moringa oleifera Seed	2025	Journal of Water Chemistry and Technology	10.3103/S1063455X25010060	Scopus
27	Thara P.; Traisa R.; Chaudhary S.; Modi P.; Saraswat V.; Kalra H.; Ramtirthkar C.R.	AI AND DIGITAL PAINTING: REIMAGINING HUMAN–MACHINE COLLABORATION	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i3s.2025.6753	Scopus
28	Vijayakumar S.; Singaravelu R.	Time Aware Long Short-Term Memory and Kronecker Gated Intelligent Transportation for Smart Car Parking	2025	Journal of Advanced Research in Applied Sciences and Engineering Technology	10.37934/araset.44.1.134150	Scopus
29	Srivastava R.; Ramu K.; Gandhi A.; Shambharkar S.S.; Ramtirthkar C.R.; Lakshmanan L.	NLP-BASED FOLK STORY DOCUMENTATION SYSTEMS	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i5s.2025.6879	Scopus
30	Mohapatra S.; Shobana R.; Amin P.; Correa F.S.; Saiyad F.; Srivastava R.	EDUCATIONAL GAMES PROMOTING FOLK CULTURE THROUGH ARTIFICIAL INTELLIGENCE	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i1s.2025.6644	Scopus
31	Simonthomas S.; Shalini K.S.	VANET Denial of Service Attack Detection in Using Optimization and Deep Feedforward Neural Networks	2025	4th Wireless, Antenna and Microwave Symposium, WAMS 2025	10.1109/WAMS64402.2025.11158965	Scopus
32	Jayanthi L.N.; Verma S.K.; Usha R.; Sekar G.; Lakshmi V.T.; Mohankumar N.	Early Detection of Road Traffic Injuries with IoT Sensor Networks and K-Nearest Neighbors Algorithm	2025	Proceedings of International Conference on Visual Analytics and Data Visualization, ICVADV 2025	10.1109/ICVADV63329.2025.10960893	Scopus

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33	Naveenkumar K.; Divahar R.; Srinivasan S.; Ebey S.; Najadh N.	Odour Emissions From Urban Municipal Solid Waste Street Garbage Bins: Air and Microbial Analysis	2025	2025 3rd DMIHER International Conference on Artificial Intelligence in Healthcare, Education and Industry, IDICAIHEI 2025	10.1109/IDICAIHEI65991.2025.11377899	Scopus
34	Vijayan D.S.; Devarajan P.; Mohanavel V.; Sankaran N.; Kannan S.; Ahsan M.S.	A Review of Sustainable Implications of Energy-Efficient Buildings in the Environment	2025	Advances in Civil Engineering	10.1155/adce/9584777	Scopus
35	Sahoo S.; Delhiraj N.; Desai M.; Selvarajan S.; Singh P.; Ghumman S.; Rangasamy A.	A SYSTEMATIC REVIEW OF ASSESSING THE IMPACT OF CLIMATE CHANGE ON MENTAL HEALTH IN PUBLIC HEALTH	2025	Genetics and Molecular Research	10.4238/bjv01a08	Scopus
36	Sasikala P.; Sharmini K.S.; Ponnappan V.S.; Kavitha K.R.; Gunasekaran K.; Srinivasan C.	IoT-Integrated Convolutional Neural Network for Accurate Vehicle Acoustic Signal Analysis	2025	3rd International Conference on Integrated Circuits and Communication Systems, ICICACS 2025	10.1109/ICICACS65178.2025.10967595	Scopus
37	Darisa N.G.; Meenakshi R.; Mythili A.; Amirthalingam V.; Poonia P.; Murugan S.	Real-Time Public Transit Route Adaptation using Multi-Agent Reinforcement Learning	2025	International Conference on NexGen Networks and Cybernetics, IC2NC 2025 - Proceedings	10.1109/IC2NC67409.2025.11376454	Scopus
38	Nayak D.K.; Devi S.; Poornima P.; Munjal S.; Verma S.K.; Doifode V.R.	MANAGING SCULPTURE WORKSHOPS THROUGH DIGITAL TWINS	2025	ShodhKosh: Journal of Visual and Performing Arts	10.29121/shodhkosh.v6.i1s.2025.6626	Scopus
39	Subramanian B.; Sivakumar L.; Duraisamy S.; Sagayaraj S.; Yesuraj R.; Mishra N.K.	A Blockchain-Based Authentication Handover Protocol for Autonomous Vehicle Networks	2025	Tasmimgiri va Tahqiq dar Amaliyyat	10.22105/dmor.2025.515463.1933	Scopus
40	Manoharan L.; Saravanapandian M.; Dwibedi R.K.; Shanmukha Vignesh K.; Ajay B.; Kalyani K.U.	IoT Integrated Flood Detection and Avoidance	2025	Proceedings of the 7th International Conference on Innovative Data Communication Technologies and Application, ICIDCA 2025	10.1109/ICIDCA66325.2025.11280326	Scopus
41	Monisha J.; Ramalingam L.; Mathankumar S.; Narayanasamy P.; Rajmohan M.; Murugan S.	Convolutional Neural Networks for Enhanced Real-Time Traffic Incident Detection and Image Classification	2025	Proceedings - 3rd International Conference on Advancement in Computation and Computer Technologies, InCACCT 2025	10.1109/InCACCT65424.2025.11011399	Scopus
42	Hussain K.; Saradha P.; Govindasamy S.; Neeraja P.; Suresh G.B.; Revathi V.	The Future Role of AI-Powered Healthcare Assistants in Medical Sector Drone Monitoring Systems	2025	Proceedings of the 7th International Conference on Intelligent Sustainable Systems, ICISS 2025	10.1109/ICISS63372.2025.11076533	Scopus

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S.No	Authors	Title	Year	Source title	DOI	Source
43	Hema L.K.; Chacko A.M.; Dwibedi R.K.; Regilan S.	IoT-Enabled Real-Time Flood Monitoring and Warning System Through Node MCU Using Temporal Attention Recurrent Graph Convolutional Neural Network	2025	Sensing and Imaging	10.1007/s11220-025-00604-7	Scopus
44	Malaiyappan P.; Ramya E.D.; Arul V.; Ganesan G.	Dengue Fever: A Rare Perspective and Emerging Strategies for Sustainable Global Control	2025	Journal of Communicable Diseases	10.24321/0019.5138.202536	Scopus
45	Balasaranya K.; Balamurugan M.; Ravindra Babu B.; Chandravathi C.; Logapriyadarshini K.; Naganathan S.B.T.	Real-Time Traffic Violation Detection with Automated Enforcement Using Computer Vision	2025	Proceedings of the 2025 11th International Conference on Communication and Signal Processing, ICCSP 2025	10.1109/ICCSP64183.2025.11089113	Scopus