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


SDG6

SDG 6 Event List

S. No.	Date	Event / Activity	Organising Institution / Department
1	27 November 2025	School Competition on Safe Sanitation	Department of Community Medicine, VMMC, KKL

DETAILED EVENT REPORTS

1. School Competition on Safe Sanitation

Date: 27 November 2025

Organising institution / department: Department of Community Medicine

Place: Girls High School, Kottucherry

Event report: The Department of Community Medicine conducted a "Safe Sanitation" School Competition on 27 November 2025 under the ICMR Extramural Funded Project (IIRP-2023-7970/F1), in observance of Children's Day 2025. Girls High School, Kottucherry participated in Art (Classes I–V), Slogan Writing (VI–VIII), and One-Minute Video Competitions (IX–X), covering themes such as waste segregation, sewage management, plastic pollution, toilet usage, and safe disposal practices.



List of VMRF (DU) Publications Made on SDG-6 in the Year 2025

S.No	Authors	Title	Year	Source title	DOI	Source
1	Ramachandran R.; Saravanakumar P.; Mathina M.; Shinyjoy E.; Zainuddin Z.; Govindarajan R.K.; Kamaraj C.; Gopi D.; Alwi R.S.	Biogenic/chitosan/bamboo fiber ternary bio-nanocomposite: Dual-functional platform for environmental and biomedical applications	2025	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2025.148563	Scopus
2	Arulnangai R.; Thirugnanasambandham K.; Ganesamoorthy R.; Gomathi R.; Parameswari R.	Role of TiO2 nanomaterial in the treatment of polluted Cauvery River water in Tiruchirappalli district, Tamil Nadu, India	2025	Desalination and Water Treatment	10.1016/j.dwt.2025.101216	Scopus
3	Mane M.; Patil D.V.; Mohur J.; Krishnamoorthy P.; Ahmad N.; Bhatnagar T.; Tripathy A.	Metapopulation Dynamics of Endangered Amphibians in Fragmented Wetland Networks	2025	Journal of Animal Environment	10.70102/AEJ.2025.17.2.45	Scopus
4	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
5	Mohanaprakash T.A.; Bhagyalakshmi A.; Senthilkumar S.; Patro P.; Rao N.K.K.; Boopathi S.	AI-enhanced advanced aquaponics in agricultural systems	2025	Utilizing Aeroponics Techniques for Improved Farming	10.4018/979-8-3693-2320-5.ch009	Scopus
6	Maniraj S.P.; Monisha J.; Amutha R.; Kavitha R.; Shriidhar P.J.; Srinivasan C.	Agricultural Water Conservation through AI-Enhanced Solar IoT Networks	2025	3rd International Conference on Electronics and Renewable Systems, ICEARS 2025 - Proceedings	10.1109/ICEARS64219.2025.10940116	Scopus
7	Monisha S.; Sangeetha S.P.	Helianthus annuus (Sunflower) and Gossypium herbaceum (Cotton) as a Phytoremediator of Chromium (Cr) in Tannery Wastewater	2025	Indian Journal of Environmental Protection		Scopus
8	Suhail M.; Suri S.; Khandual A.; Jayakumar S.S.; Ruikar S.S.; Singh T.; Krishnamoorthy S.	Genetic Diversity Assessment of Island Endemic Species Using Environmental DNA Metabarcoding	2025	Journal of Animal Environment	10.70102/AEJ.2025.17.4.68	Scopus
9	Gunasekaran N.; Kumar N.K.; Saranya L.R.; Aravindha Babu N.; Chinnathambi K.; Malakondaiah S.; Motcha Rakkini V.; Ryntathiang I.; Jothinathan M.K.D.	Biodegradation of Textile Dye Effluent Using Bacteria and Fungi Isolated from Textile Effluent and Optimization of Environmental Parameters	2025	International Journal of Advanced Science and Engineering	10.29294/IJASE.12.2.2025.5796-5805	Scopus
10	Thummala H.; Priyanka K.; Sayana S.B.; Kandimalla R.	MICROBIAL PRODUCTION OF BIOSURFACTANTS AND THEIR BIOCHEMICAL CHARACTERIZATION	2025	Asian Journal of Pharmaceutical and Clinical Research	10.22159/ajpcr.2025v18i11.56591	Scopus

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11	Monisha S.; Sangeetha S.P.	Analysis of Plants, Helianthus annuus (Sunflower) and Gossypium herbaceum (Cotton), for the Control of Heavy Metals Chromium and Arsenic Using Phytoremediation Techniques	2025	Nature Environment and Pollution Technology	10.46488/NEPT.2025.v24i02.B4237	Scopus
12	Rangegowda R.; Makhija H.; Mary Praveena J.; Swain D.K.; Malathi H.; Sree D.V.; Singh S.	Development of Predictive Models Using Applied Statistics for Crop Yield Optimization	2025	Genetics and Molecular Research	10.4238/qkwm5305	Scopus
13	Govindaraj V.; Lakshuman C.; Mythili M.	Geospatial Approach; Identification of Soil Erosional Hazards Zone and Prioritizations of Gomukhi Watershed at Tamil Nadu State, India; Through RUSLE Model	2025	Advances in Geographical and Environmental Sciences	10.1007/978-981-96-8452-6_1	Scopus
14	Rattan D.; Datta P.; Sharma D.; Bhusal C.K.; Sehgal R.	First report of molecular detection and phylogenetic analysis of Toxoplasma Gondii in soil, water and vegetables from Chandigarh city, India	2025	Scientific Reports	10.1038/s41598-025-90469-3	Scopus
15	Muruhan S.; Nirmala C.; Gnanamathy G.; Roopa N.; Jayakumar M.	An overview of water quality, water pollutants, and the importance of nanomaterials in water remediation	2025	Current Advancements in Nanomaterials for Wastewater Remediation: Challenges and Mitigation Strategies	10.1016/B978-0-443-16112-4.00002-5	Scopus
16	Thenpandiyan E.; Ramasamy V.; Suresh G.; Senthil S.; Sathishpriya T.; Ilaiyaraja P.	A naturally derived Sm3+-doped CaCO3 photocatalyst for the degradation of major organic dyes from wastewater	2025	Ionics	10.1007/s11581-025-06212-5	Scopus
17	Renuka S.; Dhanaraj K.; Suresh G.; Thenpandiyan E.; Kumar S.R.A.; Ramachandran K.	A greenery rodlike ZnO and Fe-doped ZnO photocatalysts for efficient dye removal from wastewater	2025	Chemical Physics Impact	10.1016/j.chphi.2025.100979	Scopus
18	Subathra M.; Devika R.	A Comparative Study on Hydrothermal Liquefied Biochar as Biofertilizer for Increased Plant Yield	2025	Agricultural Science Digest	10.18805/ag.D-6047	Scopus
19	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
20	Saravanabhavan S.S.; Kamalakannan V.P.; Thanarasu A.; Marimuthu N.; Devarajan P.; Dhanasingh Sivalinga V.; Natarajan K.; Natesan B.	A method to remove heavy metals from wastewater by modifying the surface of a PVDF membrane using chitosan and PANi and assessing it using the Hermia model	2025	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2025.144673	Scopus

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21	Rubesh Ashok Kumar S.; Vasvini Mary D.; Suganya Josephine G.A.	Incorporation of W[sbnd]Ce oxides on Ti3C2Tx/gC3N4 bi-layers: An efficient photocatalyst under visible/sunlight irradiation	2025	FlatChem	10.1016/j.flatc.2025.100920	Scopus
22	Murugan S.K.; Rede G.D.; Baskaran T.L.; Kumari P.; Nuta A.C.	DETERMINANTS OF SOLAR WATER PUMPING SYSTEM ADOPTION AMONG FARMERS: A FACTOR ANALYSIS APPROACH	2025	Journal Of Economic Sciences: Theory And Practice	10.30546/jestp.2025.82.02.2016	Scopus
23	Vasvini Mary D.; Rubesh Ashok Kumar S.; Suganya Josephine G.A.	An efficient rare earth metal oxide-supported MXene/g-C3N4 photocatalyst for removing organic dye from wastewater	2025	Journal of the Indian Chemical Society	10.1016/j.jics.2025.101750	Scopus
24	Rajesh M.	Adaptive Edge-Federated AI Framework for Contactless Menstrual Health Prediction Using Multimodal Physiological Intelligence	2025	MethodsX	10.1016/j.mex.2025.103665	Scopus
25	Soman K.; Kanagaraj K.; Senthilkumar N.; Rajendran S.; Faraj T.K.; Alrefaei A.F.; Thirumalaivasan N.; Sundaram T.; Roy A.; Verma R.; Thomas S.; Gopi S.; Lackner M.	Nitrogen-doped carbon dots from Brahmi (Bacopa monnieri): Metal-free probe for efficient detection of metal pollutants and methylene blue dye degradation	2025	Green Processing and Synthesis	10.1515/gps-2024-0182	Scopus
26	Elumalai S.; Somasundaram A.; Ramasamy P.	A comprehensive review on nanochitosan and its diverse applications in various industries	2025	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2025.141150	Scopus
27	Shareef M.M.; Prasath S.; Dhall H.; Al-Fatlawy R.R.; Singh K.R.; Dwibedi R.K.	Soil Moisture Prediction with Temporal Convolutional Networks (TCN) for Precision Irrigation	2025	2025 International Conference on Automation and Computation, AUTOCOM 2025	10.1109/AUTOCOM64127.2025.10957252	Scopus
28	Harish C.; Loganathan P.; Sudha G.; Babu K.T.; Pundir S.; Jebaseeli S.K.; Janapati K.C.; Senior A.S.B.; Prakash K.B.	Grey Wolf Optimization based MPPT of PV System Powered Water Pumping System Driven by SRM under Partial Shading Conditions	2025	3rd International Conference on Power Electronics and Energy, ICPEE 2025	10.1109/ICPEE65973.2025.11411532	Scopus
29	Monisha S.; Sangeetha S.P.	Brassica juncea and Medicago sativa as Phytoremediators for the Removal of Chromium and Arsenic	2025	Nature Environment and Pollution Technology	10.46488/NEPT.2025.v24i03.B4275	Scopus
30	Saini P.; Rangasamy A.; Ray S.; Lakshmi L.; Mohamed Jaffar A.; Kalidhas A.M.; Gupta K.	Wastewater-Based Epidemiology for Early Detection of Viral Outbreaks	2025	Genetics and Molecular Research	10.4238/9ajqv058	Scopus
31	Suresh G.; Goyal D.; Srinath G.; Anerao P.; Bhan S.; Guo Q.	Electrochemical Sensors Based on Graphene Oxide for Real-Time Detection of Heavy Metal Contaminants	2025	International Academic Journal of Science and Engineering	10.71086/IAJSE/V12I4/IAJSE1234	Scopus

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32	Gunasekaran S.; Sakthivel S.; Rajan R.E.; Balasubramanian M.; Latkar Y.S.; Mathew B.M.	Fluoride-induced effects on cognitive development in Indian children: A systematic review and meta-analysis	2025	Journal of Indian Society of Pedodontics and Preventive Dentistry	10.4103/jisppd.jisppd_259_25	Scopus
33	Arulnangai R.; Muralitharan G.; Thabassoom H.A.; Ganesamoorthy R.; Thirugnanasambandham K.; Parameswari R.	Assessment of the adequacy of groundwater quality for residential and irrigation applications in India	2025	Desalination and Water Treatment	10.1016/j.dwt.2025.101229	Scopus
34	Venkatachalam R.; Supriya S.; Deshpande M.R.; Vaidevi C.; Bhattacharya S.	Implementing Zero Liquid Discharge Systems to Minimize Industrial Wastewater Residues in Mechanical Manufacturing Processes	2025	Springer Water	10.1007/978-3-031-84909-1_3	Scopus